

To Messrs. C. E. FULFORD, Limited.

The Proprietors of ZAM-BUK,

GREEK STREET, LEEDS.

I, THOMAS WILLIAM PROSSER, of Wellington Street, Luton, Registered Chemist and Druggist, hereby express my sincere regret at having supplied a person with an ointment which was afterwards represented as ZAM-BUK, which ointment was not ZAM-BUK, and which led to a penalty of £5 including costs or one month's imprisonment being imposed in a criminal prosecution at the Luton Police Court on the 23rd day of February, 1910.

I much regret having been the primary cause of this trouble, and ask you to accept this apology, and use it as you think fit.

Dated this fifteenth day of March, 1910.

THOMAS WILLIAM PROSSER.

Witness to Signature of the said
THOMAS WILLIAM PROSSER.

H. W. LATHOM,
Solicitor, Luton.

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HIS MAJESTY'S &
VARIOUS FOREIGN
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					9/- per doz. nett.
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BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA

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McKessou & Robbious
Martindale, W.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
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Rowland, A., & Sons
Standard Tablet & Pill Co.
Woods, W., & Son
Woolley, J., Sons & Co., Ltd.

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Edwards, W., & Son
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Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Pothe, H., & Co.
Queloh, H. C., & Co.
Reuter, H. J.
Saunders
Schutze, F., & Co.
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Solport Bros.
Southall Bros. & Barclay, Ltd.
Tidman & Son, Ltd.
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Viscose Co., Ltd.
Wattenbach, O.
Wood, Vincent
Woolley, J., Sons & Co.

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McCracken, J. & R.
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Maw, S., Son & Sons
Wood, Vincent

ELECTROPLATING

Galvanit Mfg. Co.

EMBROCATIONS

Chameleon Oil Co., Ltd.

EMERY AND CLOTH

Oakey, J., & Sons, Ltd.

EMULSIONS, C.O.O., ETC.

Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Southall Bros. & Barclay, Ltd.
Woolley, Jas., Sons & Co.
Wright, Layman & Umney, Ltd.

ENTOMOLOG. APPARATUS

Watkins & Doncaster

ENEMAS

Bailey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Dyrol Rubber Co.
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co. Ltd.

EPSOM SALTS

Howards & Sons, Ltd.

ESSENCES, CONCRETE

Lantier Fils
Murray O., & Co., Ltd.

ESSENCES, SOL. AND FRUIT

Alliance Drug & Chem. Co.
Barnett & Foster
Bnsh, W. J., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Fuerst Bros.
Hay, Wm., Ltd.
Lautier Fils
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Zimmermann, A. & M.

ETHERS

Baiss Bros. & Stevenson, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL

Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Hymans, H., & Co.

EXTRACT OF HERBS

Newball & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)

Allen, Stafford, & Sons, Ltd.
Chemist's Co-operative Wholesale
Evans Sons Lescher & Webb
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son
(See also WHOLESALE DRUGGISTS)

FEEDING BOTTLES

Breftit, E., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sangers'
Solport Bros.
Southall Bros. & Barclay Ltd.

FERTILISERS

Voss, Walter, & Co.
With's Chemical Manure Co.

FILTERS

Berkefeld Filter Co., Ltd.
Seitz, Theo

FLESH GLOVES

Sangers'
Solport Bros.

FLY-CATCHERS

Alabastine Co. (British), Ltd.
Deansmere Manfg. Co.
Ford, Shapland & Co.
Frowein, C.

Kay Bros., Ltd.

Smith, J. H., & Co.

Tunbridge & Wright

FOODS, INFANTS'

Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FOODS, SPECIAL

Allen & Hanburys, Ltd.
Bayer Co., Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Brusson Jeune
Burt, C. J.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Wander, A.

FRUIT SYRUPS

Idris & Co., Ltd.

FULLER'S EARTH

Mumford, G. S., & Sons

FUMIGATORS

Corry & Co., Ltd.
Voss, Walter & Co.

GELATIN AND GLUE

Boehm, F., Ltd.

GLAUBER'S SALT

Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERIN

Boehm, F., Ltd.
Fuerst Bros.
Price's Patent Candle Co.

GLYCERIN PLANT

Forshaw, E., & Son, Ltd.

GOLDBEATER'S SKIN

Gutmann & Leslie Gates

GOLD PAINT

Judson, D., & Son

GRINDERS

Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GUMMED PAPER TAPE

Gosheron, John, & Co.

GUMS

Fink, F., & Co.

DYES

Blackie, Robert
Harker, Stagg & Morgan, Ltd.

HAIR PREPARATIONS

Blackie, Robert
Capsuloids (1909), Ltd.
Cheshrough Manfg. Co.
Edwards' "Harlene" Co.
Egglossa Mfg. Co.
Harker, Stagg & Morgan, Ltd.
Herpicide Co.
John Strange Winter
Robare's Aureoline
Rowland, A., & Sons
To-Kalon Mfg. Co., Ltd.

HAT DYES

Whitaker & Co.

HEATING APPARATUS

Clark, S., & Co.

HERBS

Brook, Parker & Co., Ltd.
Miller, J. & G.

Potter & Clarke, Ltd.

Ransom, W., & Son

HOMOEOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Epps, James, & Co.
Keene & Ashwell, Ltd.
Leath & Ross

HOTELS

Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE

May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HOT-WATER BOTTLES

Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Galen Mfg. Co., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay
Tompkins, James, Ltd.
Wood, Vincent

HYPOPHOSPHITES

May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

INHALERS

Maw, S., Son & Sons

INSECT POWDER

Boehm, F. Ltd.
Smith, B. A., & Co.

INSECTICIDES

Aome Chemical Co., Ltd.
Corry & Co., Ltd.
Christy, Thos., & Co.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Voss, Walter, & Co.

INVALID CHAIRS

Ellmore, W. T., & Son, Ltd.

IODINE AND IODIDES

Howards & Sons, Ltd.
Morson, T., & Son

ITROSYL

Fletcher, Fletcher & Co.

JARS AND POTS

Breftit, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Johnsen & Jorgensen Ltd.

Kilner Bros., Ltd.

Lang, Jules, & Son

Maw, S., Son & Sons

Poths, H., & Co.

Reuter, R. J.

Stipendium Stopper Co.

Toogood, W., Ltd.

LACTIC FERMENT PREPS.

Allen & Hanburys, Ltd.
Cox, Arthur H., & Co., Ltd.
Davies Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Lloyd, T. Howard, & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co.

LANOLINE

Burroughs Wellcome & Co.
Christy, T., & Co.

LARD

Chemist's Co-operative Wholesale
Ewen, J., & Sons

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.

Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS

Liverpool Lint Co.
Robinson & Sons, Ltd.
Vernon & Co. Ltd.

LIQUORICE JUICE

Boehm, F., Ltd.
British Drug Houses, Ltd.
Carmichael, F. J., & Co.
Evans, Gray & Hood
Fuerst Bros.
Evans Sons Lescher & Webb, Ltd.
Hornor & Sons
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.

Allen, Stafford, & Sons, Ltd.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS

British Drug Houses, Ltd.
Fuerst Bros.
May & Baker, Ltd.
Merck, E.

LOZENGES

Ayrton, Saunders & Co., Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raines & Co.
Warrick Bros.

MAILING CASES

Estes, E. B., & Sons

MARKING INK

Hickisson, A. (Bond's)

MACHINERY, PHARMACAL

Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Braithwaite, H., & Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS

Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Parke, Davis & Co.
Washington Chemical Co.

MAL. EXTRACT AND PREPS

Allen & Hanburys, Ltd.
Blackie, R.

British DiaMalt Co.

Burroughs Wellcome & Co.

Evans Sons Lescher & Webb

Hewlett, C. J., & Son

Lorimer & Co., Ltd.

Montgomerie & Co., Ltd.

Oppenheimer, Son & Co., Ltd.

Paine & Co., Ltd.

Southall Bros. & Barclay, Ltd.

Woolley, Jas., Sons & Co., Ltd.

Wright, Layman & Umney

MEASUREFS

Beaton & Co.
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS

Armour & Co., Ltd.
Brand & Co., Ltd.

MEDICINE CHESTS

Burroughs Wellcome & Co.

Keene & Ashwell, Ltd.

Leath & Ross

Lloyd, T. Howard, & Co.

Parke, Davis & Co.

MENTHOL CONES

Bush, H. W., & Co., Ltd.
Lubenow, Hugo, Ltd.

Maw, S., Son & Sons

MERCURIALS

Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.

Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS

Darton, F., & Co.

METHYLATED SPIRIT

Burrough, J., Ltd.
Preston's Liverpool Distillery

Randall & Son, Ltd.

MINERAL WATERS AND**SALTS**

Apollinaris Co., Ltd.
British Drug Houses, Ltd.

Burrow, W. & J.

Cheltenham Municipality

Findlater & Co., Ltd.

Hughes, E. Griffiths

Ingram & Royle, Ltd.

Vichy (State Springs)

MOTOR GOGGLES

Darton, F., & Co.

MUSK ARTIFICIAL

Mallmann, W.

OILS, ESSENTIAL

Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Bennett Bros.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Dodge & Oleott Co.
Evans Sons Lescher & Webb, Ltd.
Fuerst Bros.
Hornor & Sons
Jackson, J., & Co.
Lautier Fils
Lhermine & Cie.
London Essence Co.
Macajone, Eugenio, & Co.
Miller, J. & G.

Morrison, R., & Co.

Pasquale, S. F. de, & Fratelli

Poppelreuter, W.

Ransom, W., & Son

Scheller, Emil, & Co.

Schimmel & Co.

Spencer, J., Son & Co.

Stevenson & Howell, Ltd.

Wright, Layman & Umney

Zimmermann, A. & M.

OILS, FATTY, ETC.

Allen, Stafford, & Sons, Ltd.
Fuerst Bros.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Smith, B. A., & Co.
Wood, Chas. E.

OILS, MINERAL

Fuerst Bros.
Price's Patent Candle Co.

OINTMENTS

Blackie, R.
Burgess, E.
Chemist's Co-operative Wholesale
Lyle & Co.
Oldfield, Pattinson & Co.
Yeomans, Ltd.

OPTICAL GOODS

Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's, Ltd.

OTTO OF ROSE

Bontcheff & Kidoff
Reitmeyer & Co. (synthetic)
Shipkoff & Co.

ORANGE WINE

Melrose-Drover Co. Ltd.

OXYGEN APPARATUS

Oppenheimer, Son & Co., Ltd.

OZONE GENERATOR

Reuter, R. J.

PALATINOLIDS

Oppenheimer, Son & Co.

PAPER TUBES

O'Neill, S., & Sons, Ltd.

PASTILLES

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, James & Co.
Evans Sons Lescher & Webb
Wander, A.
Warrick Bros.

PATENT AGENT

Barker, R. W.

PERFUME FILTERS

Seitz, Theo.

PERFUME MATERIALS

Bontcheff & Kidoff
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Compagnie Morana
Lautier Fils
Murray, O., & Co., Ltd.
Scheller, Emil & Co.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Zimmermann, C., & Co.

PERFUMES

Allen & Hanburys, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Chuit, Naef & Co.
Erasmie Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Morison, G. H., & Co., Ltd.
Newbery, F., & Sons, Ltd.
Quelch, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mfg. Co., Ltd.
Warrick Bros.
West, T., & Son

PESSARIES

Burge, Warren & Ridgley
Rendell, W. J.

PETROLEUM EMULSION

British Drug Houses, Ltd.

PETROLEUM JELLY

Chesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.

PHOTO-CHEMICALS

Boehringer, C. F., & Soehne
Merek, E.
Reitmeyer & Co.

PHOTO ENLARGERS, PRINTERS, &c.

Done, John
Express Developing Co.
Halifax Photographic Co.

PHOTO-GOODS

Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Darton, F., & Co.
Evans Sons Lescher & Webb, Ltd.
Halifax Photographic Co.
Ilford, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Reitmeyer & Co.

PILL BOXES

Evans Sons Lescher & Webb, Ltd.

PILL COUNTERS

Bornkessel, F. G.

PILL MAKERS

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co.

POLISHES (VARIOUS)

Bradley & Bourdas
Judson, Daniel, & Son
Oakley, J., & Son, Ltd.

PROPRIETARY ARTICLES

Anglo-American Drug Co.
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Bayer Co., Ltd.
Beecham, T.
Beiersdorf, P., & Co.
Box, W. H.
British Drug Houses, Ltd.
British Liquezone Co.
Burgess, E.
Capsuloids (1909), Ltd.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Daggett & Ramsdell
Daisy, Ltd.
Danyz Virus, Ltd.
Da Silva & Co.
Davenport, J. T., Ltd.
Day & Sons (Crewel), Ltd.
Denoual, J., & Co.
Ecosolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harvey & Co. (Dublin), Ltd.
Henry, T. & W.
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Ichthyol Gesellschaft
International Chemical Co.
Iron-Ox Rem. Co., Ltd.
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Lalor's, Dr., Phosphodyne
Lofthouse & Saltmer
Lorimer & Co., Ltd.
Martindale, W.
May, Roberts & Co.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Owbridge, W. T., Ltd.
Pedey Co.
Phillips, Chas. H., Chem. Co.
Reitmeyer & Co.
Resinol Chemical Co.
Sangers'
Sartolin, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thompson & Capper
Tomoda, K., & Co.
Tunbridge & Wright
Voss & Co.
Walker & Son
Wilcox, Jozeau & Co.
Yeomans, Ltd.
Zimmermann, A. & M.
Zimmermann, C., & Co.
Zotos, Ltd.
(See also DENTRIFICES and TOILET ARTICLES)

PLASTERS

Allcock Mfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas, A. de St., & Co.
Geiger & Braun
Leslies, Ltd.
Maw, S., Son & Sons
Solport Bros.

POSTERS

Ford, Shapland & Co.

PRINTERS

Christie, Malcolm & Co.
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Smith, W. H., & Son
Townsend, J., & Sons

PULVELLÉ

Warrick Bros.

PULVERETTES

Oppenheimer, Son & Co., Ltd.

PUMPS

Berkefeld Filter Co., Ltd.

QUININE AND SALTS

Boehringer, C. F., & Soehne
Howards & Sons, Ltd.
Pointet & Girard

RAPE OILS

Hull Oil Mfg. Co.

RAZORS

Auto-Strop Safety Razor Co.
Hovenden, R., & Sons, Ltd.
International Distributing Co.

RENNET

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOLIDS

Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS

Zimmer & Co.

RUBBER GOODS

Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Dunlop Rubber Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Galen Mfg. Co.
Hasting, Lang & Co., Ltd.
Haywood, J. H., Ltd.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Shirley Bros., Ltd.
Warne, W., & Co., Ltd.

RUBBER SPONGES

Wanklyn H. A.

SACCHARIN

Saccharin Corporation, Ltd.

SALICIN

Macfarlan, J. F., & Co.

Smith, T. & H., Ltd.

SAMPLE CASES

Keane, Thomas

SANTONIN

Smith, B. A., & Co.

SAPOIN

Field, C. W.
Stamher, Dr. R.

SAUCES

Goodall, Backhouse & Co.

SCALE PREPARATIONS

Morson, T., & Son

SCALES, WEIGHING

Maw, S., Son & Sons
Parnall & Sons, Ltd.
Southall Bros. & Barclay, Ltd.

SEA SALT

Tidman & Son, Ltd.

SEA-SICKNESS REMEDY

Zotos, Ltd.

SEEDS

Brook, Parker & Co., Ltd.
Conway, Wm., & Sons, Ltd.
Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanburys, Ltd.
American Animal Therapy Co.
Evans Sons Lescher & Webb
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHARES

MoAdam & Tuckniss

SHEEP-DIPS

Acme Chemical Co., Ltd.
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING

Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd.
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SIZE POWDER

Tomlinson & Hayward, Ltd.

SOAP PLANT

Forshaw, E., & Son, Ltd.
Armour & Co., Ltd.
Chiris, Antoine

SOAPS, MEDICATED

Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Fulford, C. E., Ltd.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright Layman & Umney

SOAPS

Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co., Ltd.
Erasmie Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hull Oil Mfg. Co., Ltd.
International Distributing Co.
John Strange Winter
Lactoline Co.
Lescol Perfumery Co.
Oakley, J., & Son, Ltd.
Pears, A. & F., Ltd.
Peats Products (Sphagnol), Ltd.
Price's Patent Candle Co.
Shaw, Henry, & Co.
Wright, Layman & Umney

SODA FOUNTAINS

Consol Automatic Aerators, Ltd.

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S.

SOOTHERS & FITTINGS

Hasting, Lang & Co., Ltd.
Shirley Bros., Ltd.

SOYA OIL

Hull Oil Mfg. Co.

SPARKLETS

Aerators, Ltd.

SPECTACLES

Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's, Ltd.

SPHYGMOMETERS

Hicks, J. J.

SPINAL CARRIAGES

Ellmore, W. T., & Son, Ltd.

SPIRIT OF WINE

Burrough, J., Ltd.
Preston's Liverpool Distillery

SPITTING-FLASKS

Maw, S., Son & Sons
Sanitas Co., Ltd.

SPONGE BAGS

Maw, S., Son & Sons
Schutze, F., & Co.
Toogood, W., Ltd.

SPONGES

Internl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Sangers'
Wanklyn, H. A.

SPONGE SHOW STANDS

Wanklyn, H. A.

SPONGIO-PILINE

Whitehead, R. R., & Bros.

SPRAYS

Burge, Warren & Ridgley, Ltd.
Burt, Boulton & Haywood, Ltd.
Davol Rubber Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Reuter, R. J.

SPRAYS, HORTICULT.

Corry & Co., Ltd.
Voss, Walter & Co.

SPRINKLER TOPS

Betts & Co., Ltd.
Brooks, Peel & Co.

STARCH

Mumford, G. S., & Sons

STILLS

Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Braithwaite H., & Co., Ltd.

SURGICAL APPLIANCES

Allen & Hanburys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Haywood, J. H., Ltd.
Hughes, G.
Hutchinson Co.
Maw, S., Son & Sons
Quelch, H. C., & Co.
Wood, Vincent
Warne, W., & Co., Ltd.

STOPPERS

Fletcher, Fletcher & Co.
Stipendum Stopper Co.

SUPPOSITORIES

Cox, Arthur H., & Co.
Peat Products (Sphagnol), Ltd.

SYNTHETIC PERFUMES

Bennett Bros.
Boehringer, C. F., & Soehne
Bush, W. J., & Co., Ltd.
Chuit, Naef & Co.
Compagnie Morana
Fuerst Bros.
Mallmann, W.
Murray, O., & Co., Ltd.
Reitmeyer & Co.

SURGICAL DRESSINGS

Beiersdorf, P., & Co.
 Berliner, Arthur
 Burroughs Wellcome & Co.
 Bush, H. W., & Co., Ltd.
 Dalmas, A. de St., & Co.
 Galen Mfg. Co., Ltd.
 Gimber, W., & Son
 Haynes, G., & Co.
 Leslies, Ltd.
 Liverpool Lint Co.
 Macfarlan, J. F., & Co.
 Maw, S., Son & Sons
 May, Roberts & Co., Ltd.
 Newsome, C.
 Robinson & Sons, Ltd.
 Southall Bros. & Barclay, Ltd.
 Thermogene Co., Ltd.
 Vernon & Co., Ltd.
 Wood, Vincent
 Woolley, J., Sons & Co., Ltd.

SUSPENSORY BANDAGES

Bailey, W. H., & Son
 Sangers'

SWIMMING FLOATS

Sebutze, F., & Co.

SYNTHETIC REMEDIES

Boehringer, C. F., & Soehne
 Boehringer, C. H., Sohn
 Hoffmann-La Roche, Ltd.
 Reitmeyer & Co.
 Wolfensberger, J. H., & Co.

SYPHONS

Aerators, Ltd.
 Barnett & Foster
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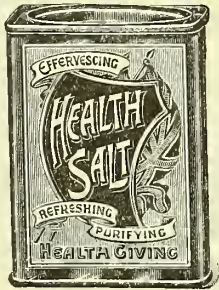
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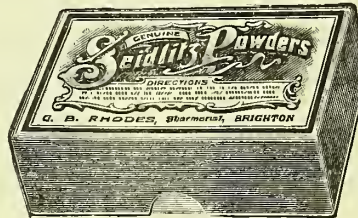
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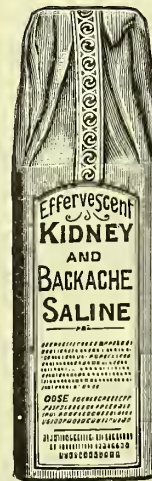
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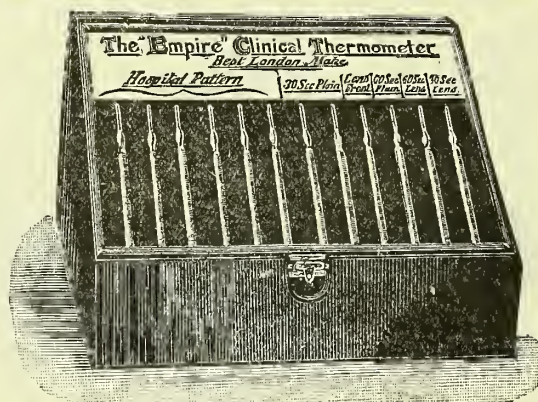
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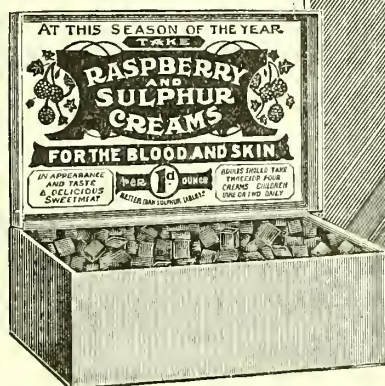
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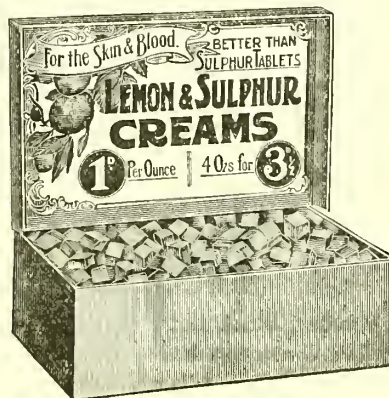
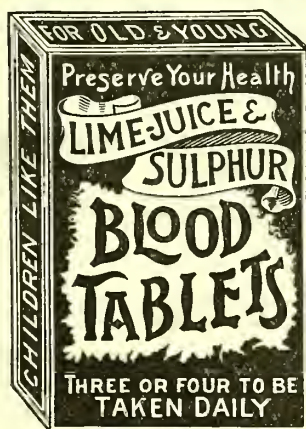
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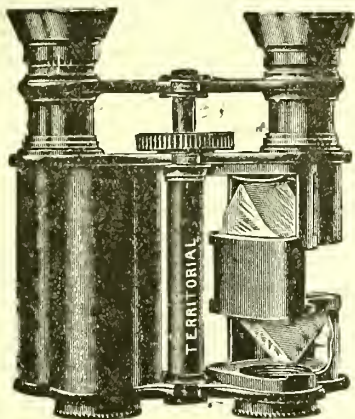
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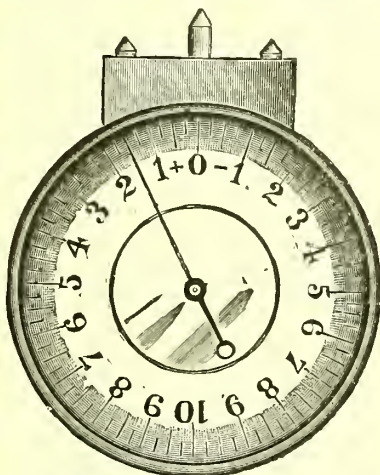


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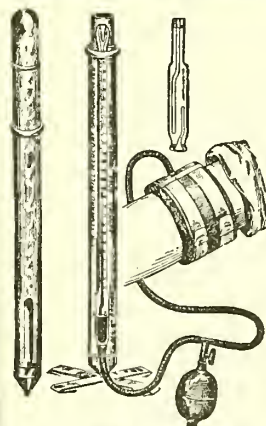
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FLY CATCHERS.

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In Registered Shape Boxes and Packets.

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**POWDER IN BOOK FORM
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Papier Poudre, 3l. size	per doz. net.	2/-
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Papier Poudre Shaving Pads, 6l. size (White)		3/9
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(WITHOUT SPIRIT).



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the name of the
Perfume.

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30/- per doz. nett.
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Actual Size of Vial

A tiny vial, yet containing more essence than an ordinary bottle of perfume at a higher price.

A ready selling line backed by advertising and giving entire satisfaction to the purchaser.

Entered on the P.A.T.A.

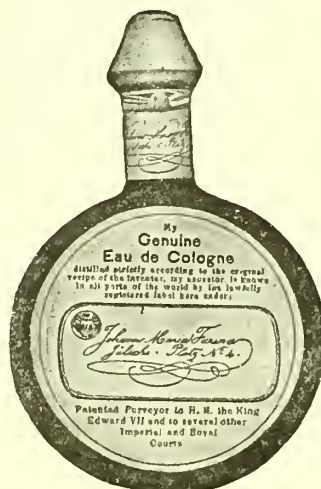
A STRONG SELLING ARGUMENT.

Courvoisier's C.C. Perfumes contain no spirits, therefore they, and incidentally the purchaser, pay no spirit duty.

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On the P.A.T.A.

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Adver- tised Price	NAME OF ARTICLE	Mini- mum retail Price	Cost per dozen
1/9	Lactoline Toilet Soap ... (3 Tablets to the Box).	1/6	13/9
1/2	" Shaving Tablets ...	1/-	10/-
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2/9	" Skin Lotion ...	2/6	24/-
5/-	" " ...	4/6	43/-
1/2	" Toilet Cream... ..	1/-	10/-
2/9	" "	2/6	24/-
1/2	" Milk Foam	1/-	10/-
2/9	" "	2/6	24/-
6d.	" Sample Sets	4d.	3/6

The above preparations show a profit as a Window Show on Bonus Basis, if sold at minimum P.A.T.A. prices, of

37½ %

If sold at the maximum prices the profit would be 54 %.

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OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)

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One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

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1/-	1/-	7/6	} per doz., less 5 % discount.
1/6	1/6	9/-	
2/6	2/3	15/-	
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SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz., 1/6 size, to 4/6, 12/- and 21/- respectively.

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Regd. Trade Mark of "Kay's Compound Essence of Linseed."

(Now upon the P.A.T.A.)

The above is a well advertised remedy of over 40 years' proven efficacy for the relief of Coughs and Colds.

Supplied by all the Wholesale Houses in London and the Provinces.

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STOCKPORT, ENGLAND.

Telegrams: "Kay Stockport."

Telephone 247 Nat.



Health Salts



Tin Closed,
with Lever
Lid Off.

In Patent Air - tight
Lever Lid Tins.

{ 4 oz. ... 3/- per doz.
6 doz. ... 2/9 "

{ 8 oz. ... 4/9
6 doz. ... 4/6 "

Special Quotations for
quantities.



Tin Open, with Lever
Lid Off and Inner
Disc Cut Open.

This is the only Tin that will keep the contents in good condition from season to season; indispensable for Export. The Tin is filled from the bottom and closed, and until cut open by the consumer is absolutely air-tight.

ORDINARY SALINE TINS.

STOCK DESIGNS.

X41. Fruit Design X28. Ship Design } 10/- per
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Filled, 2/9 per dozen.

WHITECROSS Liver Salt, in decorated Tins, 2/9 per doz.
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VISCOSE BOTTLE CAPS

so indispensable to you is their usefulness in special cases. For instance, what could be more appropriate and useful for capping poison bottles than Bright Red Viscose Caps; and what could be more effective for perfume bottles than the many pretty colours in which Viscose Caps can be supplied? Anyone can fix them without practice, and they are absolutely air tight. Send for the booklet, which tells you more. Note my new address—

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Your name can be printed on your Corks in any color.

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Full particulars, sample and price list of all Chemists' Corks
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Offer the Trade the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the Country.

	PROTECTED RETAIL PRICE.	DOZEN.
LOSALL'S SALT (well advertised), tins ...	6d. ...	3/8 net.
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" " " " in cartons ...	1/6 ...	10/8 "
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LOSALL'S BALL ROOM FLOOR POLISH. Sells well. Big profit ...	1/- ...	7/- "

Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business.

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MILK EMULSION.

THE name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered, people expect to receive FAULDING'S MILK EMULSION. We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights.

"Milk Emulsion" is sold in Bottles only. Wholesale, by—

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Medium " 7 " " "
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OLIVE OIL

ALL KINDS.

Personally selected
in the Olive Oil
Producing
Countries.

ALL QUALITIES
GUARANTEED GENUINE.

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NEWBRO'S HERPICIDE

The ORIGINAL remedy that kills the dandruff germ.

This wonderful Hair-Saver acts by destroying the germ or microbe that causes dandruff, itching scalp and falling hair, after which the hair resumes its abundant growth and beauty as nature intended. Extraordinary results follow the intelligent use of Herpicide. Sold in all civilised countries.

Newbro's Herpicide is the most exquisite hair dressing in the world. Cooling and comforting. It stops itching of the scalp almost instantly.

Manufactured by THE HERPICIDE COMPANY, Detroit, Michigan, U.S.A.

TRADE SUPPLIED BY

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Retail 4/- per bottle.

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in lots of 3 dozen, 5 % discount.

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POWDERED TOILET SOAP.

DELICATELY PERFUMED.

Packed in Prettily Decorated Sprinklers.

*Certified by Dr. A. B. Griffiths of London Public Analyst
as the “VERY BEST TOILET SOAP.” Antiseptic, Disinfectant & Hygienic.*

Write for Sample Tin to **HENRY SHAW & CO DUKINFIELD.**

TRY IT IN YOUR BATH

BY APPOINTMENT



TO H.M. THE KING.

SCRUBB'S AMMONIA

MARVELLOUS PREPARATION

Refreshing as a Turkish Bath.

Splendid Cleansing Preparation for the Hair.

Allays the Irritation caused by Mosquito Bites.

Restores the Colour to Carpets.

Invaluable for Toilet Purposes.

Removes Stains and Grease Spots from Clothing.

Invigorating in Hot Climates.

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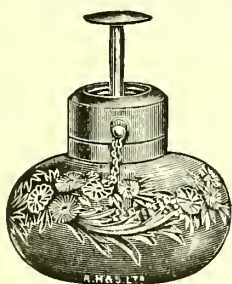
Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

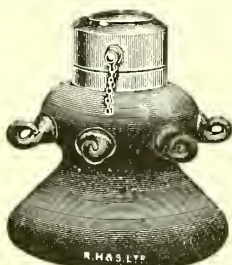
SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.

TRAVELLING ODORATORS

We have given our special attention to the manufacture of **TRAVELLING ODORATORS**, and have an immense variety in stock, including some of the **FINEST ENGLISH, FRENCH, and BOHEMIAN CUT GLASS.**



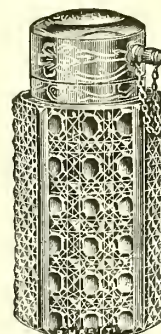
Hand-cut English Glass, with Nickel Mount.
No. 32 ... **72/-** per doz.



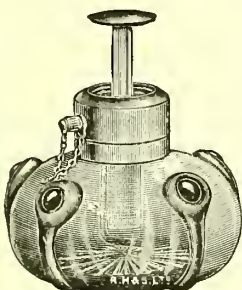
English Glass, tinted Green, with Nickel Mount.
No. 38. ... **72/-** per doz.



Hand-cut English Glass, with Nickel Mount.
No. 22 ... **93/-** per doz.



Cut Glass tinted Ruby or Green, with Gilt Engraved Mount. No. 67 **93/-** per doz.



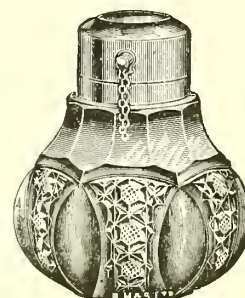
English Glass, with Emerald or Amethyst decoration.
No. 3 ... **66/-** per doz.



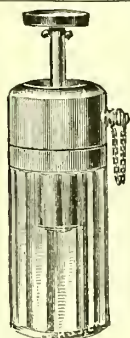
Decorated Glass.
No. 82 ... **33/-** per doz.



Engraved Glass with Nickel Mount.
No. 81 ... **42/-** per doz.



Handsome Cut Glass, with Nickel Mount.
No. 79 ... **66/-** per doz.



No. 157. Nickel.
17/- per doz.

No. 158 ... **25/-** per doz.
No. 161 ... **31/-** "
No. 157, Gilt ... **30/-** "

Special Quotations for Quantities.

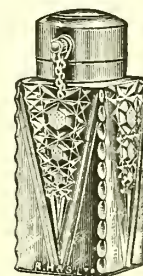
We invite a personal inspection of our stock of Sprays, and where this is impossible we shall be pleased to forward a selection on approval.



Hobnail Cut Glass, with Nickel Mount.
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35/- per doz.



No. 612.
Cut glass, assorted.
27/- per doz.



Cut glass, with Nickel Mount.
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45/- per doz.

SUBJECT TO 2½% CASH DISCOUNT.

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The well-known Cure
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When writing, please give names
and, if possible, send copies of all
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INDEX and BUYERS' GUIDE

See pages 7 to 9.

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106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.

The New Shape, Oval Fronted Bottles, 6 ounce size, 8/6 per gross
A Sample Free on Application.

FIRST QUALITY.

3 & 4	6 & 8	12	16 ounce.	} Round edges, plain or graduated, quinine tinted.
9/-	10/-	15/-	20/- per gross	

SECOND QUALITY.

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7/6	8/6	12/-	18/- per gross	

PANEL BOTTLES (New Series), Green or Blue Glass.

Good Quality.

2	2½	4	6	8	10 ounce.	} In ordering please say if green or blue is required
7/-	7/6	8/-	9/-	9/6	12/- per gross	

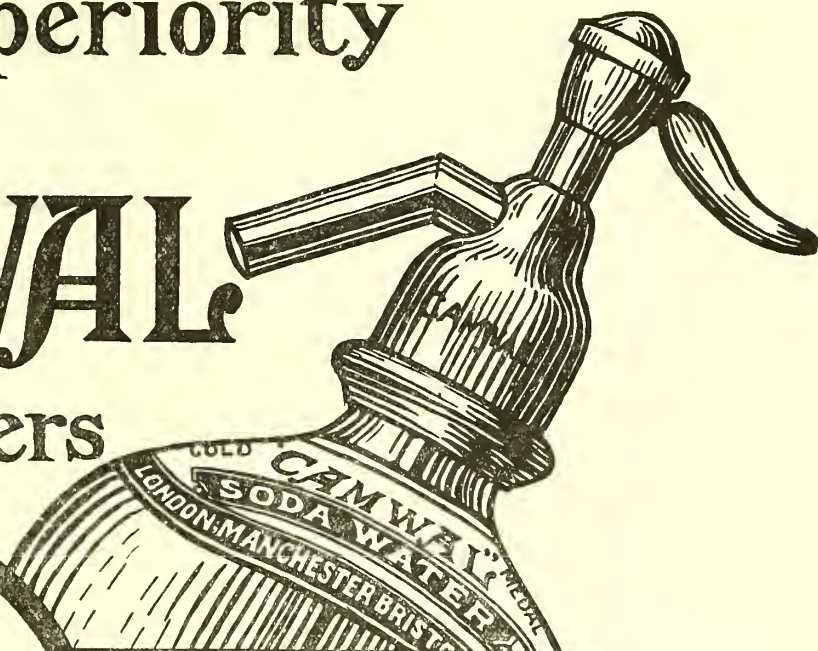
WHITE PHIALS—GOOD QUALITY.

½	1	1½	2 ounce.	} Plain or teaspoons.
3/6	4/-	4/6	5/6 per gross	

Six gross and upwards, assorted or otherwise, sent carriage paid to any
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Established 120 years. Bankers: London County and Westminster Bank.

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Indisputable.

They command a ready Sale wherever introduced, as for Purity, Aeration and Palatability, they are unexcelled.

The High Quality of the Camwal products is maintained by watchful analytical control, by the use of only the best and purest ingredients, and by the most careful and standardised methods of manufacture.

An unique advantage of the Camwal Gold Medal Table Waters is the printed statement on the labels of the Proportions of Ingredients. Medical Men and Chemists can appreciate this important feature, and can, for instance, confidently recommend "Camwal" Lithia

Water as being
in fact Lithia
Water.

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SPECIALITIES: Cums Arabic and Tragacanth as imported or finely powdered—Dextrine, Camomiles, Honey. Waxes of all kinds for Boot Polishes, &c.

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Only the finest Rubber and best English Workmanship employed in their manufacture. Satisfaction guaranteed.
THE HIGHEST QUALITY AT LOWEST MANUFACTURERS' PRICES.

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10 x 8	4/1	12 x 10	5/3
12 x 6	4/-	14 x 8	5/-
12 x 8	4/5	14 x 10	5/11

BEST BRITISH HEAVY MAKE.

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FARMER'S "BAITED" PHOSPHOR PASTE
TO THE FRONT.

Sells well. Good Profits. Mixed perfectly by special process.

FULL PRICES, viz.:—3d., 6d., 1s., obtained at 1s. 5d., 2s. 10d., 5s. 8d. dozen.

ONCE USED, ALWAYS.

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1 1/2 size	2/9	4/6	11/-
6/6 doz.	18/- doz.	34/- doz.	120/- doz.

Discount 5 per cent. on £10 worth for cash.

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KRUSCHEN SALTS,

produced by evaporation from the celebrated mineral springs. A perfect diuretic aperient for the treatment of Rheumatism, Gout, Constipation and Inactive Liver.

Liebig's Analysis: Soda Sulph., Soda Chlorid., Soda Phosph. Magnes. Sulph., Magnes. Chlorid., Potas. Sulph., Potas. Chlorid.

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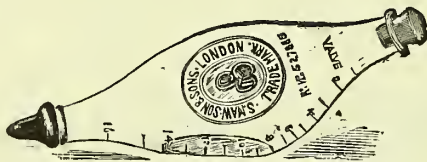
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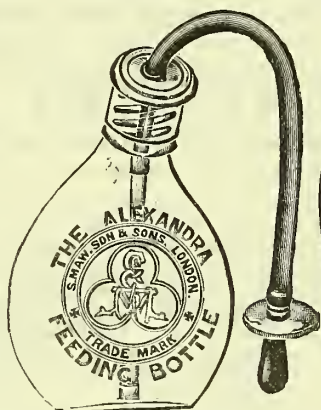
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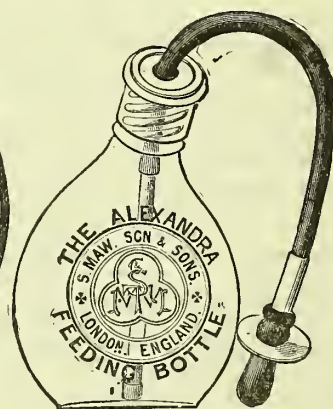
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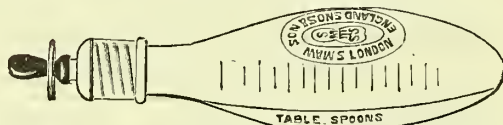
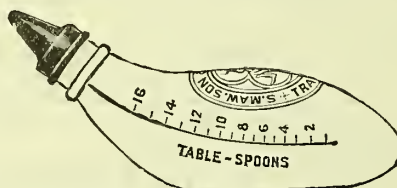
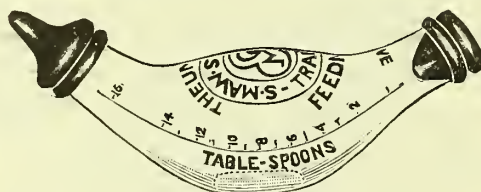


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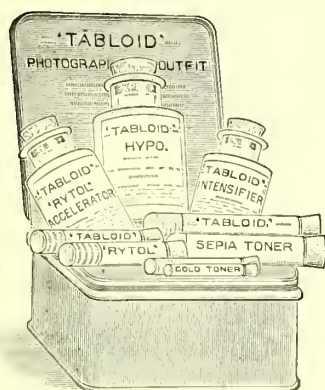
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TRADE WITH THE COLONIES.

THE population of the British Dominions beyond the seas is eight times that of Great Britain. These millions of our fellow-subjects have daily need of medicinal preparations, perfumery, toilet articles, and druggists' requisites of all kinds, and they buy them. In order to give manufacturers and firms connected with the trades mentioned an opportunity of getting a share of the splendid business thus available, THE CHEMIST AND DRUGGIST ON

April 23, 1910,

will publish a Colonial and Foreign Issue, with an extra circulation, quite in addition to the ordinary weekly subscription circulation of the *C. & D.* A booklet has been prepared by the Publisher, which contains a remarkable list of cities, towns, and townships, etc., abroad, each containing one or more actual buyers of druggists' goods, to whom the Colonial Issue will be sent. This list is not artificially expanded in any way by the inclusion of provinces, states, duchies, or districts, actual business locations only being mentioned. Write to the Publisher for a copy.

Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

The principal subject discussed by Xrayser II. is the doctor in fiction (p. 47).

As a further contribution to the discussion of essential oils, Messrs. Harvey and Wilkie communicate the results of many observations with Abbé's refractometer. The data also cover many fixed oils (p. 50).

We return to the question of the increased duty on spirits, the "Daily Telegraph" having confirmed our observation that it is not likely to be reimposed. It is not improbable that it will merely be reduced (p. 49).

The report on the prescription problem which we set for apprentices last month is given in the Coloured Supplement this week. It includes an informative letter from Sir James Sawyer, M.D., and another problem.

The General Medical Council has published a useful report as to the conditions of medical and dental practice in 121 Colonial possessions and foreign countries for those who hold qualifications obtained in the United Kingdom (p. 50).

Some time ago we complained about the delay which Excise red tape occasions when a methylated-spirit retailer or user wants to return a drum of the spirit. The Board of Customs and Excise have issued a regulation on this and other matters which gives local officers liberty of action (p. 48).

Dr. J. C. McWalter, in a characteristic letter, questions the iconoclastic conclusions of Short and Salisbury regarding the utility of topical pain-relievers (p. 61), and so does Xrayser II. (p. 47). On the contrary, Professor W. E. Dixon holds the iconoclastic view on this and other subjects (p. 54), but Dr. A. P. Luff recommends the good old-fashioned applications for rheumatism (p. 46).

The Week's News.

Irish drug contracts are reported on p. 36, and others in Great Britain on p. 45.

"Diamine" is a good trade-mark for mineral dyes. So Mr. Justice Nevill has ruled (p. 40).

The liquidation of the Rational Remedies Co., Ltd., has brought out interesting facts (p. 41).

A bills of exchange case of special interest to Mincing Lane brokers and merchants is reported on p. 40.

The total liabilities of W. Caudery & Co. are returned at 370,875*l.*, and the deficiency 181,942*l.* (p. 40).

Mars is not inhabited, says Professor Arrhenius, who gives chemical and physical reasons for his statement (p. 37).

Questions of law as to the supply of chlorodyne in Natal have been raised in an action by Durban chemists (p. 38).

The settlement of the French Customs' tariff has progressed a little so far as articles of interest to our readers are concerned. See p. 37.

Professor Campbell Brown, of Liverpool, the eminent analyst, and Dr. Van Gorkom, the distinguished Dutch quinologist, are dead (p. 42).

The Winter Session pages this week contain reports of two dozen meetings. Several good topics of practical interest are included (pp. 52-55).

The Port of London rates inquiry is practically over so far as the chemical and drug trades are concerned. We report on the conference with the Authority and what was done at the inquiry on Thursday (p. 34).

Trade and Market Matters.

Market alterations in prices include an advance in cod-liver oil, ipecacuanha, cream of tartar, ammonia sulphate, and soda nitrate. Benzols, castor oil, and foreign citric acid firmer. Japanese slab camphor, copper sulphate, and canary-seed are all easier. The International Glycerin Convention met this week, but decided to make no change in chemically pure; the market is, however, tending easier (p. 58).

NEXT WEEK'S "C. & D."

In order to ensure home delivery of the *C. & D.* next week before the Easter holiday begins, it will go to press on Wednesday instead of Thursday. Contributors and others will please let us have "copy" promptly.

English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the item's.

Brevities.

The "British Homœopathic Review," started three years ago under the auspices of the British Homœopathic Association, has ceased publication.

The Senate of the London University have decided to invite representatives of the Universities of the Empire to a Congress to be held in London in the year 1912.

The Houghton-le-Spring Guardians have decided not to adopt the Local Government Board's suggestion that the Guardians supply expensive drugs for the outdoor sick poor instead of the medical officer.

At the Clerkenwell Police Court, on March 16, Stephen Cronin, a scaffolder, was remanded on a charge of being concerned in stealing from Mr. Harry Hickey, chemist, a gold watch, while he was looking at a flower stall in Farringdon Road, E.C.

At Coventry on March 16, John White was sent to penal servitude for life for attempting to murder his mother (*C. & D.*, March 12, p. 413). The defence was that the mother died from syncope as the glass did not contain a fatal dose of potassium cyanide.

The next examination for the diploma of the Spectacle-makers' Company will be held on May 9 and following days at St. Bride Institute, Ludgate Circus, London, E.C. Particulars can be had from the Clerk of the Company, 9 to 11 Temple House, Temple Avenue, E.C.

A chemical and oil works is to be erected on a site adjoining the Lonsdale Dock, Workington. The Workington Iron and Steel Co. and Messrs. Hardman & Holder, Ltd., tar-distillers, Manchester and Blackburn, are interested in the formation of a company to carry out the project.

On Wednesday afternoon, when a pair-horse van belonging to Messrs. Idris, Ltd., well laden with "minerals," was proceeding along the Chiswick High Road in the direction of Kew Bridge, the near side hind wheel collapsed, brining the van to a standstill on the tram-lines and blocking both the up and down routes for thirty-five minutes.

An outbreak of fire occurred at the High Street branch of Oxens, Ltd., chemists, Newcastle-under-Lyme, on March 11, the conflagration starting in the oil stores at the rear. The flames quickly gained headway through the bursting of the barrels with inflammable contents, and although the fire-brigade prevented the fire spreading to the neighbouring premises the stores were completely gutted. The damage is covered by insurance.

Sale of a Pharmacist's Stock.

Mr. Edward Butterfield, Ph.C., 13 Hereford Road, Westbourne Grove, W., is retiring from business, after a tenancy of upwards of thirty years. Failing to find a purchaser for the business as a going concern, he instructed Messrs. Graves & Son, auctioneers, to dispose of the whole of the stock, fittings, fixtures, and furniture by auction on the premises on Tuesday, March 15. Mr. Butterfield is a lover of art, and had a small collection of oil and water-colour paintings and engravings, which were included in the sale. The fittings of the well-appointed pharmacy were sold at bargain prices. A 6-ft. mahogany wall-case, fitted with six shelves, enclosed by two glazed doors, 6 ft. high, with pilasters and truss supports and cornice over, went for 25s. A 15-ft. run mahogany-top fitment, comprising nests of drawers and lockers, with glass handles, together with the contents, sold at 32s. 6d.; and a 6-ft. mahogany dispensing-screen, by Treble, fitted shelves and enclosed by four glazed doors in front and shelving behind, at 35s., brought a smile of satisfaction to the buyer. The stock, as is usual on such occasions, went at bargain prices. A hock-bottle lamp, four measures and a funnel, three developing-dishes, a set of scales, a "Jaynay" circular print-cutter, four vignette-glasses, three glass-cutting-shapes, a circular japanned 10-in. washer, and a camera tripod at 2s. made another bargain. Two bottles (about

two quarts) of oil of lavender and spirit, in equal parts, and about $\frac{1}{2}$ oz. of otto of rose were, after keen competition, knocked down at 22s. Very appropriately the last lot was the bull's eye lamp over the door: for this 8s. was obtained. We noticed in the catalogue, under "The Contents of the Poison Cupboard," that "Lots 243, 244, and 245 can only be purchased by qualified chemists or medical men." Mr. Butterfield, a typical pharmaceutical chemist of the old school, courteously informed a *C. & D.* representative, in reply to an expression of regret that such an old business should be closed, that young men have not the capital, and if they have they are afraid of the stores and multiple shops; besides, the changes brought about by cheap travel, with migration to suburbs and garden cities, while in central districts rent and rates grow and profits are starved—all these are factors telling against the old family business. When Mr. Butterfield's affairs are settled he hopes to proceed to Canada, where family ties and "the open" call him, and there he hopes to spend the evening of his days.

Port of London Rates.

Viscount St. Aldwyn has been continuing his inquiry into the proposed schedule of rates for goods entering into the Port of London. The room in the Westminster Palace Hotel in which the inquiry is held is crowded at every sitting by interested persons. It was expected that Mr. John C. Umney, F.C.S., Chairman of the Chemical Section of the London Chamber of Commerce, would have given evidence on Friday, March 11, or Monday, March 14, but, acting upon a hint from Viscount St. Aldwyn, Mr. Umney discussed the rates for chemicals and drugs privately on Tuesday, March 15, with Sir Hudson E. Kearley, Bart., Chairman of the Port Authority, and others representing that body, when twenty-eight sections of the Chamber were heard. As a result of the conference a satisfactory basis was agreed upon for reclassification of drugs, barks, roots, essential oils, and the like, and Mr. Umney was asked to complete the details of the classification. It was also arranged that considerable reductions should be made in the rates for the more important heavy chemicals, and instead of the rates on practically all drugs being 3s. per ton, they will range, according to value, from 9d. to 3s. The agreement awaits confirmation by Viscount St. Aldwyn, as may be gathered from the subjoined later report:

At the resumed inquiry on Thursday, Mr. Fitzgerald, K.C., for the Authority, announced that the result of the conferences that had been held had been eminently satisfactory, and he thought that in twenty-seven cases out of twenty-eight agreements had been arrived at as to the rates in the schedule which would be laid before his Lordship.—The Chairman: I must reserve the objections of those who did not appear at the conference for consideration.—Mr. Clements asked the Chairman to hear him on behalf of Messrs. Spencer, Chapman & Messel, chemical manufacturers, as they had not been in conference.—The Secretary (Mr. Farrer) then read out the lists of the interests in whose cases the rates had been agreed, among them being the London Chamber of Commerce (all sections), chemicals, drugs and photographic materials, etc.—Mr. Clements said he had not heard the names of Messrs. Brunner, Mond & Co. and the United Alkali Co., and Mr. H. Lloyd replied that they were both settled.—Sir Hudson Kearley stated that the conference was attended by twenty-eight groups, and their suggestions were considered by his colleagues and himself, with, he thought, a conclusion satisfactory to all parties except the cement-trade. The result rendered it unnecessary to call evidence from the parties.—Subsequently Mr. Clements mentioned, on behalf of Messrs. Spencer, Chapman & Messel, that it would not be possible for any objector who had yet to be heard before the inquiry to go on—at any rate, he would be placed in a position of some difficulty—if he did not know the terms of the settlement.—The Chairman: I think the best course would be to postpone this schedule till to-morrow morning, and then any objector can see what is done with regard to their particular article. I shall not hear anybody against the schedule who has been in conference and agreed to the new proposals.—The inquiry was adjourned.

Clapham Chemist's Charity.

Mr. Edward Baker, The Cedars, Clapham Common, manufacturing chemist, Lord of the Manor of Hutton, Essex, died on November 13, 1880. Subject to his wife's life interest he left 10,000l. in trust for the benefit of the Protestant poor of Clapham and 5,000l. for the Protestant

poor of Hutton. Mrs. Baker died at Clapham in April 1907, and now the trustees give notice that on March 31 they will proceed to elect the first pensioners of the Edward Baker Charity, nearly thirty years after his death and three years after the death of his widow. It would be interesting to know why they have taken three years to make a start upon a scheme which they have had twenty-seven previous years to formulate. Applicants must have resided in Clapham at least seven years; must not have received Poor-Law relief, other than medical, during the past two years; and must show inability, from age, ill-health, accident, or infirmity, to maintain themselves. Medical and marriage certificates are required, and guarantees of good character, sobriety, and need signed by two householders. The trustees announce that preference will be given to those longest resident in the parish and to those who have shown "reasonable providence." The pensions will not be less than 5s. or more than 10s. a week. Mr. Edward Baker's estate was entered for probate at 90,000*l.* about May 2, 1881.

Birmingham Notes.

The Birmingham "Mail" has printed an article on the Jacob Bell Centenary.

Whooping-cough is very prevalent in the city just now and saffron tea is having a good time.

Of the 26,000*l.* annual expenditure of the General Hospital, about 4,000*l.* is for drugs and surgical appliances.

Mr. F. Barlow, chemist, Balsall Heath, has again succeeded in securing valuable prizes for his dogs at the London Dog Show.

At a recent gathering of the Edgbaston St. George's Men's Bible Class, Mr. John Wakefield, Ph.C., was presented with a handsome dressing-case by the members.

The Yorkshire folk of Birmingham placed a wreath composed of laurel, immortelles, and white roses (York), with the initials J.P., on the pedestal of the statue of Joseph Priestley on the anniversary of his birth—March 13.

A novel exhibition may be seen in a good-class pharmacist's window at King's Heath, consisting of all the modern essentials of a well-conducted laundry. Finely crystallised borax, soap powders, wax, cloudy ammonia, etc., are there; so are housemaids' chamolins gloves and a huge straw hat, of the Joseph's coat sort, intended to show the different varieties of dyes on sale at the shop.

A well-known pharmacist of this city, who has relinquished pharmacy, and is making more profit out of photography, tells how a youngster with his fond mamma came to be photographed. He yelled for a very long time, and to pacify him his mother said, "The gentleman is not going to hurt you," but he said she had told him that at the dentist's, and he yelled the more.

Mr. Jeffrey Poole, chemist, Great Hampton Street, has secured a seat in the City Council for St. George's Ward by a majority of 1,009—he polled 1,255, and his opponent (a Liberal) 246. There has not been a great number of pharmacists in the Council, the most noteworthy in recent years being the late Mr. Price, chemist, Bromsgrove Street, and Sir Thomas Barelay. One of the first letters that Mr. Poole received on his success was from a well-known pharmacist, and read:—"Snoitalutagnoc ytraeh yrev, 1009." As Mr. Poole hails from the borders of Wales he, no doubt, did not find this a puzzle.

Leeds Commercial Travellers' Association.

The monthly meeting of the Executive took place on Saturday, March 12, at the Hôtel Métropole, Leeds, the new Chairman (Mr. G. H. Kelly) presiding. Proposals for a new benevolent national fund for aged travellers and widows were discussed, and it was agreed to support the Chambers of Commerce throughout the country in securing more prompt delivery of luggage and samples when sent by canal and railway companies; clearer marks of destination are desirable to ensure speedy transit. Mabel Fanny Ford was adopted as a candidate for the June election of the Travellers' Schools at Pinner. Ten new members were enrolled, and two additions were made to the Sick Benefit Society. Two life governorships were elected to the Commercial Travellers' Benevolent Institution, and Messrs. C. Walker and Thomas Swales as subscribers. For the conference, to be held at Hull on Whit-Monday, Mr.

Thomas Mountain, Keighley, was nominated vice-chairman; Mr. Fred Coysh, London, as Parliamentary agent; Mr. C. Davenport, Burnley, Treasurer; and Messrs. G. H. Kelly, J. W. Turner, J. H. Litt, W. Forrester, and Thomas Swales were appointed as delegates.

Earlier Closing.

A draft closing order, issued by the Stockton-on-Tees Town Council for chemists, gives the following closing hours: Mondays, Tuesdays, Wednesdays, and Fridays, 9 p.m.; Thursday, 1.30 p.m.; Saturday, 10.30 p.m. On Thursdays pharmacies may be opened from 7 p.m. to 8 p.m. for the supply of urgent necessities. The order is not to apply on the day before Good Friday and between December 17 and 31. All-day closing is stipulated on Good Friday and Christmas Day.

Sale of Food and Drugs Acts.

The Rotherham analyst reports that during the past quarter he examined one sample each of ground ginger and Friars' balsam. Both were genuine.

The West Suffolk county analyst reports that of the samples of drugs analysed, only one of camphorated oil was not up to standard, being 3 per cent. deficient in camphor.

The Glamorgan county analyst reports that all the following samples proved on examination to be genuine: Pepper, 9; vinegar, 5; ground ginger, 2; arrowroot, 2; peppermint cordial, 1; lemon cordial, 1; camphorated oil, 1; olive oil, 1; and carbonate of magnesia, 1.

Wine and Spirit Licences.

The Licensing Justices have granted off-wine licences for the sale of medicated wines to the following applicants:

Mr. Walter Athron, chemist and druggist, 8 Harehill Road, Littleborough, Lancs.

Mr. John Wm. Bracewell, chemist and druggist, 18 Bridge Street, Ramsbottom.

Cramlington Village Co-operative Society.

Mr. Robert Smith Fairey, West Auckland.

Taylor's Drug Co., Ltd., Shildon.

The following applications for wine-licences have been refused:

Mr. Newton Clarkson, chemist and druggist, King Street, Richmond, Yorks.

Mr. Thos. Ogden Malyn, 129 High Street, Swansea.

Mr. R. Troughton, of Conisborough, notifies us that the licence granted to him was a full off-wine licence, and not for medicated wines only, as stated in last week's issue.

At the adjourned Brewster Sessions at Leeds on March 10, an application for an off-wine licence by Mr. Walter Hammond, chemist and druggist, 7 White Horse Street, Leeds, was granted.

At the adjourned Licensing Sessions at Bradford last week, Mr. Charles H. Deacon, chemist and druggist, who had previously held an off-wine licence for six years, was granted a licence for his pharmacy at 200 Manchester Road, Bradford, upon undertaking to sell medicated wines only. A number of licences granted to other chemists came up for confirmation, and were approved.

Police-court Charges.

At Northallerton on March 9, a youth named Thomas W. Fawcett was bound over for six months on a charge of stealing a camera and other goods, the property of Mr. H. Fairburn, chemist and druggist, Northallerton. The lad told his parents that the articles were prizes which he had won at school.

At Barnsley on March 11, Charles Lister Smith and Tom Smith were fined 10s. each, and costs, for obtaining money by false pretences by selling "Vamaru" red-cross wine on the representation that they did it on behalf of the Barnsley Co-operative Society (*C. & D.*, March 12, p. 380). Harry Sears Dorrington was dealt with under the First Offenders Act.

NASTIN IN LEPROSY.—In December last Prof. Deycke, of Hamburg, arrived in Demerara for the purpose of carrying out at the Leper Asylum his treatment of leprosy by "nastin." It is too soon for any definite opinion to be expressed with regard to it, but the surgeon-general reports that the outlook is distinctly promising, and the treatment is being steadily followed at the asylum on the lines laid down by Prof. Deycke.

Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Aberdeen and the North.

Mr. Charles Simpson, chemist, King Street, Aberdeen, has been appointed a life manager of the Aberdeen Royal Infirmary.

Mr. Marshall K. Watt, who recently (*C. & D.*, Feb. 5, p. 207) acquired Mr. Cran's pharmacy at 28 Eslemont Avenue, Aberdeen, has sold his business at 198 King Street to the Northern Co-operative Co., Ltd., which is also opening shortly a new drug shop at 577 George Street (corner of Fraser Street).

Previous to leaving Midmar Mr. James Milne, J.P., chemist, was waited upon by a deputation of representatives of the district and presented with a gold watch, suitably inscribed, in recognition of his public services during a thirty-three years' residence in Midmar. Mrs. Milne and family also received gifts.

Mr. Charles Kerr, Ph.C., Dundee, has been presented with an illuminated address on the occasion of his retirement from the treasurership of the mission of Panmure Street Congregational Church, an office he has filled for thirty years. Mr. Kerr's connection with this church covers the long period of forty-six years. A beautiful pearl brooch was at the same time presented to Mrs. Kerr.

Edinburgh.

Trade has been quiet everywhere, and at least a couple of chemists' shops may be closed after the May term.

A pharmacist in Portobello announces in his window that no prescriptions are dispensed and no poisons are sold by unqualified assistants.

Following complaints regarding the attendance of well-to-do patients, the managers of Leith Hospital are now issuing schedules to all applicants in the out-patient section. Questions which bring out the circumstances of the cases have to be answered, and the information thus obtained is investigated.

The Edinburgh School Board have purchased a house in Lauriston Place which they intend using as a school for children suffering from ringworm and other contagious skin ailments. The householders in the district are indignant, and a public meeting was held last week at which several doctors and a local pharmacist spoke against the proposal.

Mr. Thomas Stephenson, Ph.C., has made considerable alterations in his premises at 137 George Street in order to give more accommodation for his monthly, "The Prescriber," which is published from that address, and the extension has enabled him to provide publishing offices with an entrance from a passage alongside and outside the pharmacy. This annexe comprises a general office and private rooms on the ground floor. A handsome mahogany and glass screen with doors of leaded glass separates the offices from the dispensing department and pharmacy proper, and Mr. Stephenson has taken the opportunity to rearrange and redecorate the pharmacy.

Glasgow and the West.

Mr. Thomas Chambers, F.I.C., who has been for several years chief chemist to Ogston & Tennant, Glasgow, has been appointed works-manager of the Sydney Soap and Candle Co., Newcastle, N.S.W.

The Dumbarton Orchestral and Operatic Society gave a performance of the "Pirates of Penzance" last week, and a local paper reports that Mr. Don. G. Mackenzie (assistant with Mr. P. Mitchell, chemist, Dumbarton) proved a worthy Major-General.

Messrs. Frazer & Green, Ltd., have issued a net cash price-list extending to fifty-six pages and cover. It is intimated in it that the company are prepared to book goods at the net cash prices, provided payment be made by the 15th of the following month.

The students of the Glasgow School of Pharmacy visited the Gartsherrie Iron Works, Coatbridge, on March 1,

being conducted over the works by the chief chemist; then the laboratory was inspected and a casting of pig-iron witnessed. There was a good attendance, including five ladies.

Irish News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

Alderman J. C. McWalter, Ph.C., etc., has been appointed deputy to the Lord Mayor of Dublin.

Mr. Michael O'Donnell, Ph.C., has been appointed compounder at the Castle Street Dispensary of the South Dublin Union. Mr. O'Donnell has been senior compounder for the last five years with Messrs. Hamilton, Long & Co.

The official returns of the imports and exports for the Port of Dublin just issued show that 1,641 tons of drugs and chemicals were imported in 1909, as compared with 1,460 in the previous year; the exports for 1909 and 1908 respectively were 162 tons and 163 tons. Perfumery to the amount of 22 tons was imported, against 16 tons in 1908.

The South Dublin Guardians, at their meeting on March 16, had before them a letter from the Local Government Board regarding the alleged refusal of the compounder of the Donnybrook Dispensary District to dispense a prescription for a patient at 11.5 A.M. and 4 P.M., on February 22. Dr. McKenna, the dispenser in question, is to be asked for an explanation.

At the quarterly meeting of the Belfast Branch of the National Society for the Prevention of Cruelty to Children it was reported, on behalf of Mrs. J. C. C. Payne, that the net proceeds of the recent children's dance amounted to 58*l.* 14*s.* 6*d.* A vote of thanks was given to Mrs. Payne for assistance thus given to the work. Mrs. Payne is the wife of Mr. J. C. C. Payne, Ph.C., Bradbury Place.

Drug and Medical Appliances Contracts.

The following contracts have been concluded by Irish Boards of Guardians, the percentages indicated being the discount allowed off the standard list:—

—	Medicines	Surgical Appliances
Ballyshannon ...	J. Clarke & Co. (Belfast), 34½%	P. A. White (Sligo), 39%
Carrick-on-Suir	Boileau & Boyd (Dublin), 35%	Same contractors, 37½%
Clogher ...	J. Clarke & Co. (Belfast), 34%	S. Connor & Son (Newry), 38½%
Clonmel ...	Boileau & Boyd, 35%	Same contractors, 37½%
Coleraine ...	J. Clarke & Co. (Belfast)	Same contractors
Cookstown ...	J. Clarke & Co. (Belfast)	Same contractors
Cork ...	Cork Chemical and Drug Co., 38%	Same contractors, 39½%
Donegal ...	Sumner & Co. (Liverpool)	Sumner & Co. (Liverpool), and J. Clarke & Co. (Belfast)
Downpatrick ...	J. Clarke & Co. (Belfast)	Same contractors
Lisnaskea ...	J. Clarke & Co. (Belfast), 34%	Same contractors, 37%
Loughrea ...	J. Clarke & Co. (Dublin), 31½%	Same contractors, 36%
Newry ...	Boileau & Boyd, 3½%	S. Connor & Son, 40½%
Newtownards .	J. Clarke & Co. (Belfast), 35½%	Same contractors, 38½%
Omagh...	Boileau & Boyd, 36½%	S. Connor & Son, 35%

The Swinford Board of Guardians have stipulated in their advertisement for tenders that goods made in Ireland must bear the national trade-mark. The Local Government Board point out that the Guardians are not empowered to restrict competition in the manner proposed. The Guardians have decided to adhere to the terms of the advertisement.

French News.

(From the "C. & D." Correspondent.)

L'AFFAIRE DE VAUGIRARD.—The latest phase in the remarkable affair of the pharmacist, M. Parat, who chained up his wife, is that she has commenced an action for divorce against her husband.

M. BALLAND.—At the last meeting of the Paris Academy of Medicine, M. Balland was elected as a National Associate. This distinguished pharmacist formerly held one of the highest positions in the pharmaceutical and chemical services of the French Army.

ROBBERY OF RADIUM.—A robbery of 6,000f. (240l.) worth of radium, which occurred last December at the Saint Louis Hospital, Paris, has been traced to two workmen who were patients there. They have been found guilty and sentenced to thirteen and eighteen months' imprisonment.

FATAL ERROR IN DISPENSING.—The Brittany police have taken action against M. Chevalier, pharmacien, of Pont Château, on account of a fatal dispensing error which occurred in his pharmacy. In the absence of M. Chevalier an assistant made up a mixture with sodium chlorate instead of sodium citrate, and the patient, a six-year-old child, succumbed a day or two after taking it.

DEFAUDING THE EXCISE.—Writing from Auch, a correspondent reports that the Police Tribunal of Condom has just given judgment in a serious case of fraud. The Excise authorities prosecuted M. Masclanis, pharmacist, at Lannepax, and Rondel & Co., wholesale druggists, of Bordeaux, on the charge of defrauding the Excise of the duty on pharmaceutical preparations containing alcohol. The Judges condemned the pharmacist to two fines equivalent to 20l. each, and M. Masclanis and Rondel & Co. jointly to twenty-three fines of 20l. for twenty-three consignments of alcoholic preparations, also to a fine equal to 4,000l., being five times the Excise duty which had not been paid.

THE ALLEGED NAVAL FRAUDS.—The frauds connected with the Toulon Naval Yard, referred to last week, continue to occupy public attention, and especially that of business circles. Other French naval centres are also being made the subject of searching inquiry. M. Chabre, the Toulon pharmacist, who was arrested on March 4, has not yet cleared himself, though his principal assistant, M. Nobili, has given evidence entirely in his employer's favour, to the effect that M. Chabre did not occupy himself at all with the Navy supplies. These, it is contended, were entirely carried out by the employé, M. Deluen, who has absconded; also that if bribes were given they were on the latter's own initiative.

CHANGES IN POSTAL RATES.—The Chamber of Deputies has voted several postal reforms. The weight for inland penny postage has been increased from 15 grams (half an ounce) to 20 grams; 50 grams (about 1½ oz.) will be carried for 1½d., 100 grams (about 3¼ oz.) for 2d., etc. The unit of weight for foreign postage is to be raised from 15 to 20 grams, the first 20 grams being charged 2½d., with an increase of 1½d. for each subsequent 20 grams. Slight as these concessions may appear compared with British postal rates, they are (especially the inland tariff) very welcome to French firms, the high rates hitherto charged having rendered absolutely necessary the use of the flimsiest quality of paper and envelopes.

NEW FRENCH CUSTOMS TARIFF.—The report on this new tariff is mainly notable by the fact that the increased scale of duties approved by the Chamber of Deputies has practically been approved by the more conservative Senate, the rates being in some cases increased. Consequently the representatives of those trades who have given so much time to defending their interests with the Senate have obtained little satisfaction. The debate on the tariff commenced in the Senate on Thursday, March 10, M. Sculfort opening with a speech which occupied the whole of the afternoon sitting. He referred to the fact that France exports some

55,000,000l. worth of goods to Great Britain annually, but that this sum remains about stationary, while, on the other hand, Great Britain is sending every year an increased quantity of merchandise to France. With regard to the question of Protection in Great Britain, he drew attention to the fact that it is gradually gaining ground, and said that England would not consult France or any other foreign country if she finally decided to lay aside her Free Trade traditions. He also went on to say that it is Germany, and not France, which is making a commercial conquest of the British Colonies. The debate is being carried on expeditiously, and there is every prospect of its being terminated promptly. One of the features of the debate has been a speech by M. Peytral, a senator who was formerly a wholesale druggist at Marseilles and held Cabinet rank in a previous Parliament. An interesting discussion took place regarding the rates on essential oils, which are as follows: Volatile oil or essence of rose, general tariff 3,000f., minimum 2,000f. per 100 kilos.; rose geranium, general 1,000f., minimum 500f.; other kinds, general 100f., minimum 50f. M. Crépin proposed adding ylang ylang oil at a general tariff of 1,075f., minimum 750f., with the idea of protecting the product of the French Colonies, where an amount is produced larger than is required to meet the consumption in France (4,000 kilos). After an interesting discussion the question was referred back to the Commission. The following day the Government agreed to apply to ylang ylang oil the same tariff as proposed for rose geranium (1,000f. and 500f.). On the question of synthetic perfumes or mixtures containing them the general tariff was agreed at 20 per cent., and for vanillin and its derivatives 15 per cent. Other tariffs adopted were: Terebinthinous resins, pitch, amber, resins, general 10f., minimum 6f. per 100 kilos.; camphor, raw, general 2f., minimum exempt, refined camphor 9f. and 6f., artificial camphor 37f. and 25f., marshmallow root, fresh, 23f. and 15f., dried 40f. and 25f.; herbs, flowers, and leaves 60f. and 40f., seeds and fruits 150f. and 100f. Sponges, raw, 35f. and free; prepared sponges 100f. and 65f. A long discussion took place in regard to the tariff on olive oil, which was adjourned.

Colonial and Foreign News.

MEDICINES FOR HOLLAND AND ITALY.—A reciprocal Dutch-Italian treaty has now been signed, facilitating the importation of medicines into Italy and Holland. The terms of the treaty are identical with those already agreed to between Italy and Germany and other States.

ADVANCE IN RUBBER GOODS.—The factories of finished rubber articles (according to the "Vossische Zeitung") contemplate a general rise in prices. The Russo-American Rubber Company of St. Petersburg has led the way in this movement, and, although it raised its prices as recently as January 1 last, it has now decided upon a further advance of 10 per cent. This example, apparently, will be shortly followed by the German factories.

MARS NOT INHABITED.—Prof. Dr. Svant A. Arrhenius, at a meeting of the Stockholm Society of Physics on Saturday, March 12, submitted a new theory concerning the canals in Mars. He considers that parallel cracks have been formed in the planet's crust which have gradually been filled up with sand containing various salts, which assume different colours, according to the amount of dampness permeating the soil of the planet at different seasons. The "melting snow" often referred to by writers on Mars is, he considers, evaporation at the Martian poles, during which the cracks assume a darker hue, but become light in colour again when the temporary dampness has passed away. Prof. Arrhenius believes that this explains the reason why the channels change colour. The seas in Mars, he adds, contain a large quantity of sand, and are not very deep. So far as his experiments go Prof. Arrhenius believes the temperature of the planet is too low to permit of the existence of plants or any other organisms.

South African News.

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in business in British South Africa.

Cape Colony.

PERSONAL.—Mr. A. Walsh, of Lennon, Ltd., has been elected President of the Pharmacy Board for the ensuing three years.—Mr. Harold R. Peck has accepted the position of Hon. Secretary and Mr. W. Sleggs that of Hon. Treasurer to the Cape Colony Pharmaceutical Society for the current year. Mr. Peck is a son of the late Alderman Peck, of Cambridge, and a brother of Mr. E. Saville Peck, M.A., Senior Hon. Secretary of the British Pharmaceutical Conference.

BUSINESS CHANGES.—Mr. J. C. Glendenning, late manager of Messrs. Heynes, Mathew & Co.'s Rondebosch Dispensary, has commenced business on his own account in the Hout Street premises lately vacated by Messrs. Cleg-horn & Darroll.—The retail premises of Messrs. Heynes Mathew & Co., Adderley Street, Cape Town, have been more than doubled in size by the inclusion of an adjoining shop, making their establishment one of the largest retail chemist's stores in South Africa.

NORTHERN DISTRICTS CHEMISTS' ASSOCIATION.—A general meeting of this Association was held in Sneddon's Rooms, Kimberley, on February 17. Present: Messrs. Cooper, Barnsley, Thane, Turpin, Robinson, Barton, Smith-Houghton, Warren, and Murray. A discussion took place on the Stamps and Licences Act, 1909. It was decided to adhere to the stamp-list issued by Messrs. Lennon, Ltd., until further definite information is obtainable. There was also a proposal by Mr. Thane to close on Wednesday afternoons from 1.30 till 6.30, which was agreed to by the members present, and Mr. T. Murray (Secretary) was instructed to write to the Kimberley and Beaconsfield Borough Councils asking them to make it compulsory.

Natal.

DURBAN TECHNICAL INSTITUTE.—At the prize-distribution on February 16 the following awards were made: *Theoretical and Practical Chemistry*—First year (prize presented by Mr. H. Roadknight, chemist), G. C. Lubke; second year, A. J. Taylor. *Botany*—First prize, A. J. Taylor; second prize, Miss May Scott.

SUPPLY OF CHLORODYNE.—In the Civil Court, Maritzburg, on February 16, before Mr. B. C. Clarence, Messrs. Stantial & Allerston, chemists, sued F. W. Bevis for 3*l.* 8*s.* 6*d.* for goods supplied. The defendant's plea was to the effect that he was never indebted to the plaintiffs for the amount named. He pleaded that he did not purchase the goods and no person had authority to purchase the goods on his behalf. Defendant included in his plea the contention that the goods were not household goods or necessities. Defendant (as plaintiff in reconvention) claimed 300*l.* damages from Messrs. Stantial & Allerston for having supplied to his wife, Margaret Ann Bevis, an excessive quantity of chlorodyne, knowing that it had a deleterious effect if taken in excessive quantities. The claim in reconvention set out that Mrs. Bevis drank an excessive quantity, and became physically and mentally affected, that she became insane, and is now an inmate of the Natal Government Asylum. The plaintiffs' plea in reconvention was that chlorodyne is a patent medicine, the ingredients of which are not disclosed, and the effects of which are commonly known to be deleterious; that it was no duty of plaintiffs to satisfy themselves of the purposes for which it was required, and therefore they denied negligence and impropriety, and prayed that the claim in reconvention be dismissed, with costs. Mr. Allerston, a chemist of over twenty years' experience, stated that the items in the account before the Court were supplied by one of his assistants at various times. At the end of July he became aware of these transactions when the books were posted. Not knowing the defendant, he stopped the supply. The account referred to ten bottles of chlorodyne. He added that there are no restrictions under the Pharmacy Act regarding the sale of this chloro-

dyne as a patent medicine. He knew of no law which entitled him to refuse sale when cash was tendered for the purchase of chlorodyne. Mr. C. A. Fawcett, chemist, Durban, and Secretary and Examiner of the Pharmacy Board, stated that since the formation of the Board thirteen years ago it had tried, in conjunction with Government, to remove patent medicines containing poisons from the last [or exempting] schedule, but the Government had not supported the Board. The object of that move was for the protection of chemists as well as the public. Patent medicines were often sold without a knowledge of their ingredients. Mr. Turner, President of the Natal Pharmacy Board, corroborated the evidence as to the steps taken to induce Government to remove patent medicines from the schedule and put them in the Poisons Schedule. Mrs. Bevis, according to other witnesses who were called, had at various times obtained the chlorodyne (Collis Browne's) from the Railway Co-operative Stores, and later at A. H. Baxter & Co., chemists, who supplied her with seventy-two bottles of the 2*s.* 9*d.* size during the first six months of 1909. Drs. Pringle, Watkins-Pitchford (Government Analyst), Oddin Taylor, and Woods were called, and gave medical evidence for the defendant Bevis. They were all of the opinion that it was the duty of the chemist to inquire into the excessive sale of chlorodyne to any person. The hearing was at this stage adjourned.

Orange River Colony.

REGISTRATION.—The O.R.C. Medical and Pharmacy Council registered on January 19 Robert Storrar Bremner, of Messrs. Wilkins & Co., Boshof (Great Britain, 1902), as a chemist and druggist.

Australasian News.

"The Chemist and Druggist" is regularly supplied by order to all the members of eight Societies of Chemists in Australia and New Zealand.

New South Wales.

POISONING BY SHEEP-DIP.—Two cases have occurred in which yellow sheep-dip has been mistaken for sulphur, with fatal results. On January 7, at Somerset, near Young, two children were given what was thought to be sulphur mixed with treacle. The sulphur proved to be a well-known sheep-dip, containing a large percentage of arsenic. The younger child died in hospital shortly afterwards. At Rockley, on January 15, Donald McQueen, aged twenty-three, took a dose of sheep-dip powder, which he supposed to be sulphur, mixed with treacle. He became ill during the night and died the following day.

PURE-FOOD ACT.—In the interpretation section of the Act it is stated that "Package includes anything in or by which goods are cased, covered, enclosed, contained, or packed." This does not say whether the outer package or the inner package or both is intended, and it clearly rests with the Board of Health, on the recommendation of the Advisory Committee, to determine the meaning to be applied to package. Apparently the intention is to make it apply to both the internal and the exterior package, for pharmacists have been required to sell chlorodyne bearing a label both on the bottle and on the wrapper.

PHARMACY BOARD.—The Board on January 14 discussed a judgment of the High Court in the *Boot Clickers' case*, which is taken to mean that an apprentice indentured before the award of the Wages Board must be paid wages in accordance with the award. The question seems by no means settled. The Treasury asked, on the suggestion of the Cootamundra Magistrates, whether steel pills used for improper purposes should be included in the schedules of the Pharmacy Bill. The Board think an alteration of the schedule in the direction desired is unnecessary. Eleven out of the thirty-five candidates passed at the recent Preliminary examination. The annual report of the Board was presented.

Queensland.

THE UNIVERSITY OF QUEENSLAND ACT, to incorporate and endow the University, was assented to on December 10, 1909. The College of Pharmacy is not affiliated, but it may be included in "any other educational establishment

in Queensland which may be affiliated upon such terms and conditions as the Governor-in-Council by Order in Council may declare and the Senate shall approve." The principal difficulty in the way of affiliating the College of Pharmacy with the University is that the Preliminary examination is of a lower standard than the Entering examination.

PHARMACY BOARD.—At the meeting on January 13 Mr. Frederick Cox, who had been granted provisional registration, asked why it was necessary for him to have his name restored to the British register before securing registration in Queensland. Mr. Evan P. Evans, the first applicant from Australia for Imperial reciprocity in Great Britain, has been told that the necessary by-laws have not been framed, and that the British Society do not know the standard of the Queensland examination, or if it has a curriculum. The Board explained that information on these matters has been communicated to the Pharmaceutical Society of Great Britain.

Victoria.

THE SHEEP-DIPPING ACT, assented to on January 4, requires that all sheep must be dipped once a year in some effective preparation approved by the Governor-in-Council for destroying the ticks and lice. The only exemption is for those sheep which have a clean certificate from the inspector.

India and the East.

(From the "C. & D." Correspondents.)

TREZO TABLETS.—At the Esplanade Police Court, Bombay, on February 22, the trade-mark case of Nathu Vallabhji, proprietor of the Anglo-Indian Drug and Chemical Co., against H. R. Modi, was heard and disposed of. The complainant manufactures and sells a headache-remedy under the name of "Trezo Tablets," and he had discovered that Modi was selling tablets in bottles bearing a label which was an imitation of his own. Mr. A. H. S. Aston, Chief Presidency Magistrate, who heard the case, found for the complainant, and fined the accused Rs. 210, also ordering the confiscated tablets to be destroyed.

B.M.A. AT BURMA.—The annual meeting of the Burma Branch of the British Medical Association was held at the Rangoon Hospital on February 9, with a presidential address by Colonel King, C.I.E., Inspector-General of Civil Hospitals, there being a good attendance of medical men. Colonel King, in the course of his address alluded to the "boom" of specialism in medicine, his opinion being that until some degree of reaction had set in no real progress would be secured. After the address those present were invited to inspect the Museum, where the principal exhibit that attracted most attention was that of Burroughs Wellcome & Co.'s "Tabloid" and "Soloid" brand medicines and Wellcome brand chemicals and galenicals. Combined with this display were the stands of Messrs. E. M. De Souza & Co., who have Messrs. Burroughs Wellcome & Co.'s depôt for Burma. These stands carried a varied assortment of optical goods and "Cylin" disinfectant and medical specialties. Messrs. Parke, Davis & Co. confined their exhibit to standardised fluid extracts for the preparation of tinctures and vaccines prepared under the supervision of Sir Almroth Wright, of St. Mary's Hospital, London. Messrs. Smith, Stanistreet & Co., of Calcutta, showed a fine selection of microscopes, and specimens of new types of aseptic hospital furniture, operation-tables, and ear, nose, and throat instruments. The North-West Soap Co., of Calcutta and Meerut, showed a wide assortment of toilet and medicated soaps. Messrs. V. J. Nahapiet & Co. showed a new form of steriliser for preserving foods. Messrs. S. Oppenheimer & Co. were represented by a display of "Izal" and its preparations. Surgical instruments were shown by Jetter & Scherer. The Kny Scherer Co. of New York were represented by their Burma agents, the Sun Drug Co. Messrs. Dey Bros. & Co. exhibited a variety of preparations by the Bengal Chemical and Pharmaceutical Works, including preparations of indigenous drugs. Messrs. S. C. Sarcar & Co. were also in evidence with proprietary medicines.

Legal Reports.

Trade Law.

Exhibiting "Surgical Goods."—At the Portsmouth Police Court, on March 15, Benjamin Barnato, drug-store keeper, 61 Charlotte Street, Landport, answered a summons charging him under the Vagrancy Act with an indecent exhibition of certain goods in his shop-window on March 12. Police evidence of exposure and purchase having been given, the defendant alleged that it was a common practice to expose for sale these goods, which were merely of a surgical and necessary character. The Bench convicted, and said they intended to stop this practice, but as defendant's case was the first under the section they adjourned it *sine die* on receiving his promise not to expose the articles again.

Sale or Return Question.—At the hearing of an action in the Shoreditch County Court on March 15, in which A. Berliner, 13 Worship Street, E.C., sued Sayers & Son, hair-dressers, Shoreham, for 14s. 6d., the price of perfume supplied, it transpired that the goods were supplied in May 1906. The defence was that the goods were on sale or return, and it was agreed that the sizes should be exchanged if necessary. For the plaintiff it was pointed out that the order was verbal, and nothing was said about sale or return until two years after the goods were sold, when defendants wanted to return five-twelfths of a dozen. That was "the limit" the defendant thought, so did Judge Bray, who said it was unreasonable to expect a firm to take back after such a lengthy period. He gave judgment for the amount claimed, with costs.

An Apprenticeship Cancelled.—Arthur E. W. Sandbach, son of the Rev. A. Sandbach, Addison Gardens, Kensington, appeared before Mr. Garrett, at the West London Police Court, on March 16, at the instance of Mr. Thomas Needham, chemist and druggist, trading as Elliott & Co., chemist, 192 Uxbridge Road, Shepherd's Bush, in respect of an alleged breach of an apprenticeship indenture. In February 1903 the defendant entered on a four years' apprenticeship at the shop, and in December last he suddenly left, giving one excuse to Mr. Edmondson, the manager, and another to his mother. Mr. Warburton, for the complainant, said it was purely out of public spirit, and not personal vindictiveness, that he brought the present proceedings. The Magistrate made an order cancelling the indentures on payment by the defendant's father (who was a party to the apprenticeship agreement) of 10l., with five guineas costs.

Alteration of an Advertising Order.—Before Mr. Assistant Judge Jackson and a jury, in the Lord Mayor's Court, on March 14, the proprietors of "Sketchy Bits" sued Capsuloids (1909), Ltd., Holborn Viaduct, E.C., for 11l. 5s., the price of certain advertisements. For the plaintiffs it was stated that the case was important, as there is an action for a considerably larger amount standing over, pending the result of this action. In September or October of last year a canvasser for the plaintiffs called upon the defendant company and saw the secretary and the managing director, who gave an order for an advertisement of Pinoza cigarettes to be inserted in "Sketchy Bits." The price of the advertisement was agreed at 3l. 15s. per insertion, and there were to be four insertions, one being free. At the outset it was said by the defendants that their advertisement must be on the back page of the publication, but they were informed that this space was not vacant, and they then agreed that the advertisement should be facing reading matter. Words to this effect were placed on the order. The defendants also gave the plaintiffs an order for a series of advertisements of Capsuloids in "Christian Novels," "Yes or No," "Dainty Novels," "Weekly Tale-teller," and "Smart Novels." The proofs of the advertisements were sent to the defendants, were passed by them, and were accordingly inserted in the papers. The plaintiffs claimed that they had two distinct contracts with the defendants, one for the cigarettes and the other for the Capsuloids. Dr. G. E. Dixon, managing director of the defendant company, stated in evidence his board had passed resolutions under which he only had power to make advertising contracts. No authority was given to the secretary of the company to give orders relating to advertisements. The order to the plaintiffs was given by witness, but it was agreed that the advertisements should be placed on the back pages of the publications. He passed the proofs for the advertisements thinking that they were to be put in the spaces which he had agreed to take. However, the plaintiffs had inserted the advertisements facing matter, and this position was absolutely of no use to him. Witness had just seen that in the original order for the cigarettes the word "back page" had been crossed out and "facing matter" written in. The writing appeared to be that of the late secretary of the company, who is not now with them. He complained that the

order-form had been tampered with without his authority. After hearing counsel, the jury found for the plaintiffs for the amount claimed, and judgment was entered accordingly, with costs. Leave to appeal was applied for and at first refused, but subsequently the Assistant Judge granted it, asking the jury whether they thought that the alteration to the order-form was with the apparent knowledge and authority of Dr. Dixon, to which the foreman replied, "That is our impression, my Lord."

Bills of Exchange.—An important judgment in regard to the validity of bills of exchange was given by Mr. Justice Coleridge on February 22 in the King's Bench Division of the High Court in the case of *Smith v. McVean*, two Mincing Lane produce merchants, who were engaged in extensive quinine, shellac, and other produce transactions. A bill for 250*l.* was accepted by the defendant, payable on January 9, 1907. Nothing was done on the bill; it remained simply accepted in blank, and remained in possession in that way down to the date of testator's death on April 1, 1909, after which the plaintiff, as administrator, obtained possession of the bill. He at first apparently thought the bill was worthless so far as the successful prosecution of a claim under it at law was concerned; but subsequently, in December 1909, he filled in the words "140 days after date," which made the date correspond with the date of the acceptance, the bill being dated August 22, 1906; 140 days from that carried it on to January 9, 1907, and he then signed the bill in the capacity of drawer. At first the defence maintained that the bill represented gaming and wagering transactions, but that plea was abandoned, and two other pleas set up. Firstly, that the plaintiff, who elected to sue personally, and not in his capacity as administrator of the will, could not, and had no right to, sue upon the bill; and, secondly, that if he had such a right the circumstances showed such unreasonable delay as to forfeit any right. Lord Coleridge held that the case was governed by Section 20 of the Bills of Exchange Act, 1882, Sub-section 1, the governing words being "when a bill is wanting in any material particular, the person in possession of it has a *prima facie* authority to fill up the omission in any way he thinks fit." "That," said his Lordship, "meets the objection taken to the title of the plaintiff to sue upon the bill." As regards the question of "unreasonable delay," Sub-section 2 of Section 20 of the Bills of Exchange Act says: "In order that any such instrument, when completed, may be enforceable against any person who became a party thereto prior to its completion, it must be filled up within a reasonable time, and strictly in accordance with the authority given. Reasonable time for this purpose is a question of fact." In this instance the question was one in which one's common sense must be exercised, said his Lordship. "The two parties were engaged in constant, continuous, and large negotiations with each other, and it appears bills were given and large sums owing from one side to the other, and balances were struck at intervals. The fact that the testator was in possession of the bills from 1906 to April 1909 leads to the surmise that there must have been very good ground, as between himself and the defendant, for not at once negotiating the bill, which he had the right to do. Is a lapse of two years and ten or eleven months to be held unreasonable within the meaning of the Act? In mercantile transactions bills are, sometimes without reason and sometimes for very good reason, held over from time to time for considerable periods, but the question of reasonableness and unreasonableness must depend upon the circumstances of each case." In this case his lordship held the opinion that the time was not unreasonable, and gave judgment for the plaintiff upon the bill, with interest (28*l.* 19*s.* 7*d.*) and costs. Leave to appeal was asked and granted.

High Court Cases.

[Unless where otherwise stated the actions are in the High Courts of Justice, London.]

A PLETHORA OF WITNESSES.

In the Court of Appeal on Saturday, March 12, before Lord Justice Vaughan Williams and Lord Justice Farwell, an appeal by the defendants was heard in the action of the International Sponge Importers, Ltd., *v.* Lloyde Bank, Ltd., from an order of Mr. Justice Jelf. Mr. Montagu Lush, K.C., who appeared for the appellants, said that the parties had substantially agreed upon a course which would save their Lordships the trouble of dealing with the application, which involved an interesting point of practice. The action was brought by a limited company against Lloyde Bank in relation to a large number of cheques. The question arose shortly before the case went for trial as to what was to be done with so large a number of witnesses as the plaintiff would have to call. The question was who was to suffer in consequence of frauds by clerks, and Mr. Justice Jelf ordered that the

whole of the people who had drawn cheques should make affidavits; but this was objected to, as there would be no opportunity for cross-examination. It would be a burden upon the plaintiffs to have to call eighty or ninety witnesses from different parts of the country, and it was suggested that a selection of about a dozen should be made haphazard from the names and that those selected should be called. Mr. Matthews, on the other side, concurred, and the order was varied by consent.

"DIAMINE" AS A TRADE-MARK.

In the Chancery Division on March 16, Mr. Justice Neville heard the application of the Company Leopold Cassella for an order that the Registrar of Trade-marks be directed to proceed with the registration of the word "Diamine" in respect of mineral dyes. Mr. Sargent on behalf of the Registrar stated that he opposed the registration on two grounds, firstly that "Diamine" is a technical chemical word to be found in the dictionaries, denoting a certain chemical combination, and secondly that the applicants were seeking to justify their appropriation of the word by saying that they had misapplied it.—Mr. Colefax, for the applicants, urged that "Diamine" had no meaning, except to denote the goods of the applicants. It was distinctive of their goods. It was sold in enormous quantities in Germany, Great Britain, and most other countries, and he had evidence from large firms of importers, users and agents for the sale of these dyes that the word "Diamine" is identified in the trade with Cassella's dyes for dyeing cotton without water.—Mr. Sargent having replied, his Lordship said that on the evidence before him it was clear that throughout the United Kingdom for upwards of twenty years this word had been associated with the goods of the applicants. Under these circumstances he did not think it would be right to refuse them leave to proceed with the registration. He did not think this would inflict injury upon anybody, even if grounds were shown later for refusing the registration.

Bankruptcy Reports.

Re Thomas Henry Elwick, 177 Carlton Road, Nottingham, lately of 93 Chilwell Road, Beeston, Drug-store Keeper.—The public examination of this debtor took place at the Nottingham Bankruptcy Court on March 11. The facts in the case were fully reported in the *C. & D.*, March 12, p. 411. In the course of the examination the Official Receiver accused debtor of neglecting his business either as the result of drink or drugs, which he denied. The Receiver also put it to him that he had been requested to withdraw from Church fellowship because of intemperance. He admitted he had withdrawn, but, in reply to his solicitor (Mr. Allcock), bankrupt said the Church referred to was a small denomination, and was practically run by one or two men. One of them was the friend who lent him 150*l.* Several were very strict teetotalers. Re-examined by the Official Receiver, he said the charge against him was practically that he was a drunkard. The examination was closed.

Re W. Caudery & Co. (Richard Bennett Jane, trading as), Chemical Merchants, 1 Fenchurch Avenue, E.C.—The public examination of this debtor was to have been held before Mr. Registrar Gifford at the London Bankruptcy Court on March 16. Mr. E. Leadam Hough (Senior Official Receiver) applied for a further adjournment, and stated that the debtor had lodged a statement of affairs, but it required amending in certain respects. The liabilities exceeded a quarter of a million, and the assets, as returned by the debtor exceeded by 17,000*l.* their true value. There was no conflict between the debtor and the Department, and the amendments were being made, but could not be completed in time to allow the examining to be taken that day. Mr. Stoneham, for the debtor, consenting, the hearing was adjourned until April 20. The statement of affairs filed by Mr. Jane shows total liabilities 370,875*l.* 15*s.* 5*d.*, made up as follows: Unsecured debts, 193,806*l.* 6*s.* 2*d.*; partly secured debts, 53,692*l.* 2*s.* 6*d.* (securities valued at 35,667*l.* 12*s.* 7*d.*); liabilities on bills, 35,143*l.* (expected to rank for 21,617*l.* 2*s.* 1*d.*); contingent liabilities, 88,025*l.* (not expected to rank); and preferential claims, 209*l.* 3*s.* 3*d.*. The assets, valued at 51,714*l.* 6*s.* 4*d.*, consist of cash, 6,335*l.* 7*s.*; stock, 380*l.* 18*s.* 11*d.*; furniture, 200*l.*; shares of estimated value 584*l.* 16*s.* 5*d.*; patents, 2,000*l.*; book-debts amounting to 90,526*l.*, and expected to realise 42,143*l.*; and bills of exchange, 69*l.* 10*s.* 9*d.*. The debtor estimates the deficiency at 181,942*l.* 15*s.* 1*d.*

Liquidation.

Re Rational Remedies, Ltd., 10 Henrietta Passage, W. Chemists and Druggists.—A winding-up order having been made in this case, the statutory first meetings of the creditors and shareholders were held at the Carey Street offices of the Board of Trade, Lincoln's Inn, W.C., on March 11. Mr. H. E. Burgess, Official Receiver, reported that a statement of affairs had been lodged showing liabilities 1,842*l.* 7*s.* 9*d.*, including a debenture bond for 479*l.*; assets valued at 205*l.*; and a deficiency of 1,657*l.* 7*s.* 9*d.*, as regarded contributories. A receiver was in possession of the assets on behalf of the debenture-holder. The company was promoted last July by Mr. A. J. Warner and Mr. J. Hamilton Hart, for the purpose of carrying on business as chemists and druggists and taking over as a going concern a business then known as "A. Gordon Wallace, specialist in the treatment of obesity, emaciation, and other diseases." That business had only been established in the preceding April, and he (Official Receiver) was unable to quite understand the object of the promotion. The business was in debt at the date of the formation, and the company agreed to take over the existing liabilities, but there apparently was nothing in writing to that effect, and some of the creditors would probably elect to proceed against the vendors rather than against the company. There was no formal transfer of the business to the company, but it was recorded in some way in the minutes. The company had lost money throughout, and although the goodwill was valued in the accounts at 50*l.* he doubted whether it really possessed any value whatever. The nature of the business was to give advice to persons who conceived themselves to be suffering from over-fatness, and to administer drugs to them.—Mr. H. W. Kilby Pears, trading as the Standard Tablet and Pill Co., asked the amount which had been expended in advertising the business.—The Chairman said it appeared that the total expenditure in that behalf was 1,250*l.*, of which 750*l.* was owing at the date of the failure.—Mr. Pears observed that the results of the advertising ought to be felt for some years, and profits should still be made, because repeat orders would come in.—Replying to a creditor, the Chairman said the total sales during the company's existence had, according to the books, amounted to 1,700*l.*—A representative of the Amalgamated Press, Ltd., suggested that the goodwill of a business upon which 1,250*l.* had been expended on advertisements ought to be worth considerably more than 50*l.*—The Chairman pointed out that Mr. Warner had, before the failure, estimated the value of the goodwill at 1,000*l.*, taking the business as a going concern, but that gentleman had added that the value wholly depended upon a continuity of the advertisements and the retaining of his services in the business. (Laughter.) Mr. Warner was now carrying on the business as Receiver for the debenture-holder.—Mr. Kilby Pears remarked that Mr. Warner had got rid of an enormous number of tablets. He (Mr. Pears) used to manufacture them for him in batches of half a million at the price of 1*s.* per thousand.—Mr. J. Hamilton Hart explained that most of the business was conducted by correspondence. The usual charge was 10*s.* 6*d.* for advice and medicine, but in some cases they obtained one and even two guineas. The liquidation was left in the hands of the Official Receiver. The principal creditors unsecured are: Amalgamated Press, Ltd., London (22*l.* 10*s.*); Davies & Co., Ltd., London (15*l.*); Commercial Engineering Co., Ltd., London (28*l.* 16*s.* 2*d.*); Dixon's Printing Works Co., Ltd., Cambridge (189*l.* 10*s.* 6*d.*); Paul E. Derrick, London (191*l.* 6*s.*); Facsimile Letter Co., Ltd., London (24*l.* 1*s.* 6*d.*); R. & E. Gibbins, London (96*l.* 5*s.*); Gilett Bros., London (69*l.* 14*s.*); Globe Wernicke Co., Ltd., London (18*l.* 2*s.* 6*d.*); Lyle Trading and Manufacturing Co., London (31*l.* 1*s.* 6*d.*); Lounon Publishing Co., Manchester (45*l.*); Marylebone Borough Council, London (42*l.* 13*s.* 6*d.*); Geo. Newnes, Ltd., London (186*l.* 9*s.*); "Nash's Magazine," London (16*l.*); "Queen" (Horace Cox), London (45*l.*); Standard Tablet and Pill Co., Hove (23*l.* 8*s.* 10*d.*).

Deeds of Arrangement.

Downing, Thomas Alfred, 157 Sidwell Street, Exeter, Chemist.—Trustee, A. L. Honey, 23 Catherine Street, Exeter. Dated March 3; filed March 10. Secured creditors, 60*l.*; liabilities unsecured, 353*l.*; estimated net assets, 216*l.*. Among the creditors are Sangers (11*l.*); Anlin Weston, Exeter (105*l.*); Anlin Weston, Ltd., Exeter (11*l.*); Evans, Gadd & Co., Ltd., Exeter, 35*l.*

Gordon, Hugh Alfred, 50 Holmsley Street, Burnley, Drug-store Keeper.—Trustee, H. Foden, 3 Ormerod Street, Burnley. Dated March 4; filed March 8. Liabilities unsecured, 513*l.*; estimated net assets, 250*l.*. The creditors include Brook, Parker & Co., Ltd., Bradford (14*l.*); Wyleys, Ltd., Coventry (23*l.*); Blundell, Spence & Co., Ltd., Hull (11*l.*); Ayton & Saunders, Ltd., Liverpool (10*l.*); R. Sumner & Co., Ltd., Liverpool (25*l.*); Oldfield, Patinson & Co., Manchester (20*l.*); Raimes & Co., York (17*l.*).

Gazette.**Partnerships Dissolved.**

COOPER, E. A., BUTTERFIELD, F., and TATTERSALL, J. S., extractors of teeth, Manchester, under the style of Cooper Bros., so far as regards E. A. Cooper.

COWLEY, E., and WOODFORD, L. A., Hulme, Manchester, manufacturing chemists, under the style of the B.K. Manufacturing Co.

EVERETT, J. G., and HOUSEMAN, A. H., chemists, etc., Windsor, Berks, under the style of Russell & Co.

HART-SMITH, H. M., and TOWNEND, R. H., general medical practitioners, Brockley, London, S.E., under the style of Hart-Smith & Townend.

The Bankruptcy Acts, 1883 and 1890.**ADJUDICATIONS.**

BAINES, EGERTON CHARLES AUGUSTUS, Henley-on-Thames, surgeon.

JENNISON, FRANCIS HERBERT, Upper Cheyney, near Bitton, Glos., late Maryhill, Glasgow, analytical chemist.

LAWRANCE, ALICE (widow), and LAWRENCE, GEORGE ALFRED (trading under the style of A. & G. Lawrence), Ipswich, mineral-water manufacturers.

RECEIVING ORDER.

HANN, J. W. (trading as J. Weston & Co.), Field Road, Forest Gate, late Worship Street, London, E.C., coffee-extract merchant.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

WESTERN VALLEY TEETH CO., LTD. (P.C.).—Capital 100*l.*, in 1*l.* shares. Subscribers same as Lancashire Teeth Co., Ltd.

LANCASHIRE TEETH CO., LTD. (P.C.).—Capital 100*l.*, in 1*l.* shares. The subscribers are J. Bloomfield, R. J. Ralph, and J. S. B. Gairn, all of Newcastle-on-Tyne.

GEORGE WATSON, JUNIOR, LTD. (P.C.).—Registered in Edinburgh. Capital 2,000*l.*, in 1*l.* shares. Objects: To acquire the business of chemical-manufacturers carried on by George Watson, jun., & Co., at 10 and 16 East Nelson Street, Glasgow. R.O., 10 East Nelson Street, Glasgow.

INTERNATIONAL REMEDIES, LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To take over the business carried on by L. Warner at Cavendish House, W., as A. Gordon Wallace, health and physical culture specialist, publisher, etc. The first directors are S. Peel and Emma B. Duthie.

HIGHWATER LABORATORY AND MANUFACTURING CO., LTD.—Capital 3,000*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of J. Highwater, Exchange Buildings, Southwark, patent-medicine manufacturer, etc. J. Highwater is permanent managing director, with 150*l.* per annum. R.O., 117-119 Exchange Buildings, Southwark, S.E.

Company News.

COLEMAN & CO., LTD.—The directors recommend a dividend at the rate of 25 per cent. per annum.

EDWARD COOK & CO., LTD.—The accounts for the year ended October 31, 1909, after providing for preference dividend, depreciation, etc., and including 4,270*l.* brought forward, show a credit balance at profit and loss account to be carried forward of 422*l.*

A. BOAKE ROBERTS & CO., LTD.—The directors recommend a dividend of 1½ per cent. (3*s.* per share) on the ordinary shares, making 17 per cent. for the year; placing 3,000*l.* to reserve (making it 33,000*l.*) and taking 2,471*l.* for bonus, etc., to employees, and carrying 5,970*l.* forward.

PRICE'S PATENT CANDLE CO., LTD.—The report for 1909 shows a profit of 79,980*l.*. After adding 7,250*l.* undivided profit from 1908, and deducting the dividend of 15*s.* per share paid in September last, a sum of 59,105*l.* remained for disposal. The directors recommend that 12,500*l.* be written off for depreciation, 37,500*l.* be applied in paying a dividend of 20*s.* per share (free of tax), making 35*s.* per share for the year, and 9,105*l.* be carried forward. The large works at Belmont and Bromborough have been completed. A factory has been acquired at Cape Town, and arrangements are being made for manufacturing at Shanghai for the Chinese market. The company has also acquired the business of the proprietors of the Red Cross night-light.

Births.

BURTON.—At Rosewell Villa, Whinbush Road, Hitchin, on March 1, the wife of J. R. Burton, pharmacist, of a son.

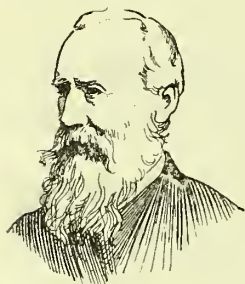
ROBERTSON.—At Firgrove, Oban, on March 16, the wife of Alec D. Robertson (of Alex. Robertson & Sons, Argyle Chemical Works), of a daughter.

Marriage.

SURTEES—ILLSLEY.—At St. Mary's Church, Barnard Castle, on March 15, by the Rev. J. W. Smith, vicar, Cuckney, brother-in-law of the bridegroom, assisted by the Rev. L. B. Ashby, vicar of the parish, Ernest C. Surtees, son of the late Mr. W. H. Surtees, of Sunderland, and Mrs. Surtees, Hexham House, Barnard Castle, to Cissy, only daughter of Mr. T. B. Illsley, pharmacist, Barnard Castle.

Deaths.

BROWN.—At 8 Abercromby Square, Liverpool, on March 12, Professor James Campbell Brown, D.Sc., LL.D., Grant Professor of Chemistry at Liverpool University, aged seventy-six. Dr. Campbell



PROF. J. C. BROWN.

Brown was the son of Mr. George Brown, of Messrs. George Brown & Co., Bow Common Alum-works, London, and was born in Aberdeen, where his early education was obtained. In 1857 he gained the Capel Bursary at Marischal College, Aberdeen University, where he studied until he matriculated at the University of London in 1862. He continued his scientific studies at the Royal College of Chemistry and the School of Mines, London, then returned to Aberdeen in 1864 as assistant to the Professor of Chemistry at the University there, and in 1867 graduated as B.Sc., London. In the same year he went to Liverpool as Lecturer on Chemistry and Toxicology at the Royal Infirmary School of Medicine. Ten years later he was one of the most active in the movement which resulted in the foundation of Liverpool University College, and when it was formed in 1883, he was appointed to the Chair of Chemistry, which he held down to his death. Professor Campbell Brown was also well known as an analyst, and in 1872 was appointed Public Analyst for Liverpool, and later held similar appointments for Cheshire, the Isle of Man, and Lancashire. He relinquished these in 1904 with the exception of Lancashire. He was a good botanist, as well as a chemist, and contributed to the literature on the subjects. He was one of the first to detect the presence of olive-stones in pepper, the adulterant having been introduced in the Liverpool district in 1887 under the name of "Poirvette." Professor Campbell Brown got the D.Sc. degree of the London University in 1870, and received the honorary degree of LL.D. from the Aberdeen University a few years ago. He was one of the founders of the Institute of Chemistry, an examiner from 1888 to 1892, and a member of Council during the same period. He had also been connected with the Chemical Society since 1867, and was at his death a Vice-President. He is survived by a widow, but there are no children.

CROFTS.—At Bletchingley Farm, Staplehurst, Kent, on March 8, Mr. Holmes Cheney Crofts, chemist and druggist, aged ninety-one. The deceased was in business in High Street, Chatham, for forty-six years, retiring about fourteen years ago. The interment took place at Chatham Cemetery on March 12. Although feeble and almost blind, the deceased gentleman retained his health and memory until within a fortnight of his death, taking a keen interest in passing events.

EDMONDS.—On March 5, Mr. David S. Edmunds, chemist and druggist, Bruton, Somerset, aged thirty-four. Mr. Edmunds, who was formerly in business at Ramsgate, took over the business of Mr. G. T. Phillips, chemist and druggist, at Bruton, about a year ago.

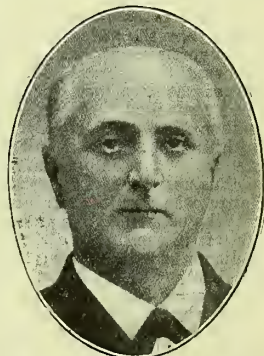
HICKMAN.—On March 1, Mr. Thomas Holland Hickman, chemist and druggist, Doura House, Wolverhampton, aged sixty-seven. Mr. Hickman was in business in Bilston, but he left the retail several years ago to devote his energies to his wholesale oil and grease trade.

HOLE.—On March 12, Mr. James George Hole, chemist and druggist, manager for Mrs. Roper, High Street, Dunmow, for thirteen years, from pneumonia, aged seventy-six. Mr. Hole was formerly in business at Chelmsford.

MATTHEWS.—On March 2, Mr. Isaac Matthews, chemist and druggist, 13 Bancroft Road, Hitchin, aged sixty-eight. Mr. Matthews was a native of Stevenage, and had been in business at Hitchin for over twenty years. He acted for some time as choirmaster at Queen Street Congregational Church.

NEWCOMBE.—On March 9, very suddenly, Mr. Simon Peter Brendon Newcombe, chemist and druggist, Okehampton, Devon, aged seventy. The deceased gentleman, who was the head of Messrs. E. Newcombe & Sons, manufacturing chemists, Okehampton, died suddenly whilst having a game of cards. He had recently recovered from an attack of influenza. He was a native of the town, being the son of the late Mr. Emmanuel Newcombe, chemist, to whose business he succeeded. He took a prominent place in local affairs, serving on the Local Board and Town Council, been Mayor on four occasions. He was also a charity trustee, Lord of the Manor of Belstone and of Meldon, and people's warden at the parish church for many years.

VAN GORKOM.—At Baarn, Holland, on March 10, Dr. Karel Wessel van Gorkom, aged seventy-five. This well-known quinologist was born at Zutphen, and at the age of sixteen he entered the Government pharmaceutical service, as an apprentice, and four years later he was appointed military apotheker of the third class. Shortly afterwards it was decided by the Dutch Government, at the suggestion of Professor Mulder, who was charged with the training of chemists for pharmaceutical service in the Dutch Colonies, to train analysts for the purpose of devoting themselves to cinchona cultivation in Java. Van Gorkom was recommended for such training, and subsequently studied at Leiden and Utrecht. In 1856 he arrived in Batavia, where his position was that of apotheker of the Military Hospital, while Dr.



DR. K. W. VAN GORKOM.

J. E. de Vrij was then appointed cinchona analyst. In 1857 Van Gorkom resigned his position in the military service in order to become second assistant in the laboratory of Government Agriculture at Buitenzorg, but in 1860 this laboratory was abandoned and Van Gorkom was drafted into the Government cinchona department. He served in this capacity in various districts in Java, and in 1864 was appointed secretary of the Commission to inquire into the Government coffee cultivation. He only occupied this position for a few months, when he was appointed manager of the Government cinchona plantation in the Preanger district, a position which he held for eleven years. In 1875 he was appointed chief instructor of rice and sugar cultures. This position he occupied for several years, and in 1880 he retired from Government service, taking up his residence at Baarn. He continued, however, to take a keen interest in all matters relating to Dutch East Indian cultivation, and was a prolific writer and debater in the press, as readers of THE CHEMIST AND DRUGGIST are aware, and in other directions gave his country the benefit of his matured experience. He was the author of a standard work on Dutch Indian

cultivation in relation to trade and industry, and the author of several handbooks on cinchona, cocoa, vanilla, spices, &c., published by the Colonial Museum at Haarlem. The chapters relating to the cultivation of cinchona were also published in English.

PEARCE.—On March 5, suddenly, Mr. Frederick Crapp Pearce, dispenser, Sedgmoor Terrace, St. Austell, aged sixty-seven. Deceased was employed for a long period by a local physician.

PUSCH.—At Bernburg on March 3, Herr Medizinalrat Theodor Pusch, honorary member of the German Pharmaceutical Association, aged seventy-five. The deceased gentleman was formerly an inspector of pharmacies to the Anhalt Government, and was one of the founders of the Red Cross Association during the Franco-Prussian war. He rendered conspicuous services to the pharmaceutical profession in Germany, says the "Apotheker Zeitung."

SMEETON.—At 34 West Cliffe Grove, Harrogate, on March 10, Elizabeth, the wife of the late Mr. William Smeeton, Ph.C., of Leeds, aged seventy-three.

WOODHOUSE.—At 3 Shirley Road, Southsea, on March 13, of pneumonia, Alfred, fifth son of the late Mr. Coventry Mark Woodhouse, of 20 Upper Phillimore Gardens, London, W., and of Messrs. C. M. & C. Woodhouse, Colonial brokers, 30 Mincing Lane, E.C., aged fifty-five.

Personalities.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

MR. T. J. FOGGITT, chemist and druggist, Thirsk, has been elected as a member of the local Parish Council.

SIR THOMAS BARCLAY, of Birmingham, sailed last Saturday from Tilbury for Italy, *via* Gibraltar, Algiers, and Genoa.

MR. JOHN LORIMER is now in Canada as representative of Messrs. C. R. Harker, Stagg & Morgan, Ltd., and Messrs. May & Baker, Ltd.

MR. C. A. COLE, M.A., Deputy-Governor of the Bank of England, has been admitted to the livery of the Spectacle-makers' Company.

ALDERMAN D. T. EVANS, J.P., chemist and druggist, High Street, Margate, has been appointed overseer of the poor by the local Town Council.

PROFESSOR MELDOLA has been elected a Vice-President of the Essex Field Club, of which Mr. D. Howard, J.P., is Treasurer and a Vice-President.

MR. J. TAYLOR, J.P., C.C., chemist and druggist, Torquay, has been re-elected a member of the Board of Management of the Torbay Hospital.

MR. H. F. COOK, J.P., chemist and druggist, retained his seat on the Cambridge County Council, for the Cherterton division, by a substantial majority.

DR. F. W. PASSMORE, of Messrs. Helbing & Passmore, consulting chemists, London, returned by the *Briton* on March 12 from his professional visit to South Africa.

SIR ALFRED KEOGH, K.C.B., ex-Director-General of the Army Medical Service, has accepted the Rectorship of the Imperial College of Science and Technology, South Kensington, S.W.

MR. GEORGE E. PEARSON, general manager to Messrs. Burroughs Wellcome & Co., has been elected Worshipful Master of the Galen Lodge of Freemasons. The installation will take place next month.

BRO. A. HOWELL, Hon. Secretary of the Association of Certified Dispensers, and a member of Marjian Lodge No. 2,648, has been appointed Almoner of the Lodge, and was invested by the Worshipful Master with the collar and jewel of the office at the recent installation meeting.

SIR EDWARD EVANS, of Liverpool, was for the fifteenth time elected Chairman of the General Committee of the National Liberal Federation at a meeting at Nottingham on Thursday, March 17. Sir Jesse Boot, Vice-President of

the Nottingham Liberal Association, entertained the delegates to tea the same afternoon.

MR. FRANCIS MEDFORTH DENTON has been appointed associate-head of the electrical engineering and applied physics department of the Northampton Institute, Clerkenwell, London, E.C., in place of Dr. C. V. Drysdale, who has resigned. Mr. Denton is at present lecturer in electrical engineering at the Carnegie Technical Schools at Pittsburg, but his early training took place in England.

THE KING has expressed a wish to inspect the two volumes of Trafalgar accounts recently presented to the museum on board Nelson's flagship the *Victory* by Mr. Thomas J. Barratt (A. & F. Pears, Ltd.), and the books will therefore be taken to Buckingham Palace for that purpose on his Majesty's return to London. Mr. Barratt purchased the books as a result of an appeal by the British and Foreign Sailors' Society.

MR. W. S. GLYN-JONES, Secretary of the Proprietary Articles Trade Association, was on Thursday evening, March 10, elected an Alderman by the Middlesex County Council. This is an honour rarely paid to anyone who has been a member of the Council for three years only. The election is for six years. It will enable Alderman Glyn-Jones to continue his work on the Council, especially in the administration of the Sale of Food and Drugs Acts.

The Right Hon. Sir Henry E. Roscoe intimates the following among other subscriptions for the purpose of acquiring a site in Gower Street and building thereon new chemical laboratories: The Chancellor of the University (the Earl of Rosebery), 1,000*l.*; the late Dr. Ludwig Mond, 1,000*l.*; Liebig's Extract of Meat Co., 105*l.*; Dr. G. Beilby, 100*l.*; Dr. Rudolph Messel, 100*l.*; Messrs. Spencer, Chapman & Messel, Ltd., 100*l.*; Sir W. Vaughan Morgan, Bart., 100*l.*; Mr. S. Vaughan Morgan, 100*l.*; and Lord Avebury, 50*l.* Many smaller amounts have been subscribed.

Business Changes.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

MR. H. RICHARDS has opened a business at Blandford, Dorset.

BOOTS, LTD., have opened a branch at 79 Digbeth, Birmingham.

MR. J. E. GOODALL, chemist and druggist, has opened a pharmacy at 37 Joonans Road, Sparkhill, Birmingham.

MR. W. F. PEARCE, pharmacist, 19 South Street, Exeter, has disposed of his branch establishment at 3 Clifton Road, Exeter.

MR. W. C. LAWRIE, pharmacist, has taken over the branch establishment of Messrs. Carruthers & Taylor, at 105 Corporation Road, Workington.

MR. J. R. HEBDITCH, chemist and druggist, late manager for Boots Ltd. at Retford, has commenced business at 30 Carolgate, Retford, as an optician.

MR. G. H. OPENSHAW, manager for the past seven years of the Morecambe branch of Taylor's Drug Stores, has taken over the business of Messrs. Angus, druggists, 7A Euston Road, Morecambe.

MR. J. HURLEY PIDDOCK is opening a pharmacy at 747 Stratford Road, Sparkhill, Birmingham, the partnership of Messrs. Brown & Piddock, chemists, Bearwood, Birmingham, having been dissolved.

MR. J. T. APPLETON, chemist and druggist, South Road, Walkley, has disposed of his branch pharmacy at Norton Woodseats to Mr. Herbert R. Fletcher, pharmacist, Tadcaster, who has been managing the business.

BOOTS CASH CHEMISTS, LTD., have taken premises at North End, Finchley, which are being altered in anticipation of opening. The company already have a large shop in Church End, Finchley, opened a little over a year ago, and it is rumoured that premises in a new building opposite the Bald-faced Stag, East Finchley, are also reserved for the company.

Trade Notes.

MESSRS. SQUIRE & SONS, chemists to the King, 413 Oxford Street, London, W., inform us that the third Appendix to Squire's "Pocket Companion," reviewed in the *C. & D.* last week, is presented gratis to purchasers of Squire's "Companion" or Squire's "Pocket Companion," and those who have either of these books can obtain a copy of the Appendix on application.

ILFORD VERSATILE PLATES.—The special agency system upon which these plates are being introduced was referred to last week (p. 413). The agencies are being well taken up, those already filled being enumerated in the advertisement of Ilford, Ltd., in this issue. The acceptance of a sole agency involves no duties, liabilities, or restrictions of any kind, except that no plates shall be sold under Ilford, Ltd.'s, fixed prices.

THE CLOUDIQUE SPRAY, which has been brought out by Messrs. C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, London, E.C., is specially adapted for use with powders. There is a small glass reservoir into which the powder is placed, and on compressing a rubber ball a fine spray of powder is produced which can be easily directed on to any desired part. Beside its use for applying medicaments, the "Cloudique" can be employed in place of the puff for spraying toilet and face powders.



MESSRS. BURROUGHS WELLCOME & Co. are exhibiting in the Aero and Motor Boat Exhibition at Olympia a series of "Tabloid" first-aid outfits and medicine-chests, which admirably illus-

trate the compactness reached nowadays in furnishing all that is wanted in treating accidents and sudden illnesses, also, we may add, the business advantages of looking ahead and entering new openings for trade, and not waiting until the path is beaten smooth by the first venturers therein.

MERCK'S SPECIALITIES.—We have received from Mr. E. Merck, chemical manufacturer, 16 Jewry Street, London, E.C., and Darmstadt, an advance copy of a booklet which is being sent to all registered medical practitioners during this month. This is a book of eighty-two pages, with red leatherette cover, containing formulae, indications, and doses of the special preparations of the Merck firm. Dispensers will be especially interested in the methods of exhibiting these remedies, and on that account should apply for copies of the work, which Mr. Merck tells us will be freely sent.

BATH-POWDER.—Any chemist who sends threepence in stamps to the Standard Tablet and Pill Co., Hove, will get in return sample tins of the new bath-powder and water-softener, which they have just added to their series of toilet-preparations. The powder is packed in cylindrical boxes, elegantly labelled, to retail at 6d., the wholesale price being 3s. per dozen—a big sixpennyworth it is, and the powder is made in five odours: Violet, lavender, sweet pea, lilac, lily of the valley, and Eau de Cologne. The name and address of the retailer are printed on the labels when three dozen are ordered.

HARRIS'S PATENT CYANIDE PACKAGES.—Since we wrote the note in our Export Merchant Shippers' Issue on these sodium-cyanide packages made by Messrs. Walter Voss & Co., Ltd., Millwall, London, E., we have received a specimen and find that the package is a lever-lid box made of zinc foil, and the instructions are: "Place the unopened package in a mixture of 2 oz. of sulphuric acid and 6 oz. of water in a sufficiently large vessel." The cyanide is not acted upon until the zinc is dissolved, so that there is at least three minutes for the user to get out of the greenhouse before hydrocyanic-acid gas is evolved. Retail chemists will appreciate the advantage involved.

A. & H. SPECIALITIES.—The Allenburys Rusks (malted) are now supplied in a smaller-size tin to retail at 1s. 6d.,

the price being protected on the P.A.T.A. plan. We have referred to the special features of these rusks within the last few months, but may call attention to a recently issued circular which recommends the rusks for use by children of ten to twelve months when tiring of the bottle. Messrs. Allen & Hanbury also inform us that they are now supplying the Sauerin apparatus in three sizes, 1 pint, 3 pints, and 6 pints, the larger sizes being intended for family use or for public institutions. The Sauerin apparatus retails at 8s. 6d., 15s., and 21s., and spare jars are always obtainable for replacing breakages.

Contracts.

Bedford Guardians.—Mr. J. S. Norman, Ph.C., 70 Tavistock Street, Bedford, appointed chemist for six months.

Blean (Kent) Guardians.—Quibell Bros., Ltd., and Greenwood & Co., Herne Bay, for disinfectants.

Brentford District Council. Mr. A. Hawthorne, chemist and druggist, Brentford, for the supply of chemicals and antitoxin to the Isolation Hospital.

Bridge (Kent) Guardians.—E. Bing & Son, chemists, Canterbury, for drugs.

Chester-le-Street Guardians.—John Ismay & Sons, Newcastle-on-Tyne, for drugs, at 13l. 9s. 11d.

Chesterton Guardians.—Mr. R. Sturton, Cambridge, appointed chemist for six months.

Dover Guardians.—Mr. E. Thompson, chemist and druggist, Dover, for water-beds at 26l. 6s. 6d.

Eton Guardians.—Mr. Charles Sangster, chemist and druggist, Slough, for the supply of drugs, etc., during the ensuing half-year.

Forehoe Guardians.—Mr. G. C. Maynard, chemist and druggist, Wymondham, for the supply of drugs.

Fulham Borough Council.—For annual supplies of disinfectants: Snowdon, Sons & Co., for carbolic-acid powder at 2s. 5d. per cwt.; Sanitas Co., Ltd., for sulphur cakes at 14s. 9d. per cwt.; liquid sulphur dioxide at 6l. per gross, mercury perchloride at 2s. 9d. per lb., ammonium chloride at 9d. per lb., sanitas soluble blocks at 2l. 19s. per 100, sanitas (crude) at 3s. 6d. per gal., sanitas powder (1d. packets) at 7s. 2d. per gross, sanitas powder (1s. tins) at 9s. per dozen, sanitas soap (No. 2) at 1l. 8s. per cwt., formalin at 4s. 3d. per gal.; Newton, Chambers & Co. for izaral at 3s. 6d. per gal.; Burt, Boulton & Haywood, for disinfecting powder at 6s. 6d. per cwt., sanitas soluble blocks at 2l. 15s. per 100, potassium permanganate at 4½d. per lb., and ialine fluid at 1s. 6d. per gal.

Hemel Hempstead Town Council.—Sanitas Co., Ltd., for disinfectants during the ensuing year.

Hendon Urban District Council.—Peter Spence & Sons, for chemicals; Newton, Chambers & Co., Ltd., and Sanitas Co., Ltd., for disinfectants.

Hollingbourne Guardians.—Stonham & Sons, chemists, Maidstone, for drugs.

Isle of Thanet Hospital Board.—E. Wootton & Son, Margate, appointed chemists for a year.

Lexden and Winstree Guardians.—Mr. A. W. Nunn, Ph.C., Colchester, for disinfectants; Corbyn, Stacey & Co., for the drug supply.

Lewisham Borough Council.—For the supply of disinfectants: Middleton Bros. for potassium permanganate at 37s. 4d. per cwt., smoke rockets at 4s. 3d. per dozen, glycerin at 11d. per lb., cyllin at 4s. per gal.; Formalin Hygienic Co., Ltd., formalin (Schering's) at 1s. 3d. per lb.; Sanitas Co., Ltd., for drain-testers at 45s. per gross; Snowden, Sons & Co., Ltd., for carbolic powder (15 per cent.) at 2s. 7½d. per cwt. and (10 per cent.) at 2s. 4½d. per cwt.; A. C. Young & Co. for carbolic acid at 11½d. per gal., flowers of sulphur at 6s. 8d. per cwt.; Savannah Chemical Co., Ltd., for soluble sanitary fluid (15 per cent.) at 6½d. per gal.; Burt, Boulton & Haywood, Ltd., for soluble sanitary fluid (25 per cent.) at 8½d. per gal.

Liverpool Select Vestry.—For supplies during the ensuing year, Evans Sons Lescher & Webb, Ltd., Liverpool, for drugs and druggists' sundries; Messrs. Alexander & Fowler, Ltd., for surgical appliances.

Merthyr Tydfil Guardians.—Mr. V. A. Wills, chemist and druggist, Merthyr, for drugs.

Metropolitan Asylums Board.—For supplies to all institutions from March 27 to December 31, 1910: A. Berliner, Cuxson, Gerrard & Co., Ltd., B. Pratt & Co., the Medical Supply Association, and G. Oldfield & Son, Ltd., for antiseptic dressings, etc.; C. J. Hewlett & Son, Ltd., for druggists' sundries.

Milton Regis Urban Council.—Mr. H. T. Maundrell, chemist and druggist, Milton Regis for the year's supply of disinfectants.

North Staffs Joint Small-pox Hospital Board.—J. D. Furnival & Co., chemists, Hanley, for one year's drug supply.

Poplar and Stepney Sick Asylum.—T. Hodgkinson, Prestons & King for drugs at 937l. 10s. 10d.; John Knight & Sons, Ltd., for soap at 517l. 9s. 8d.; Jones & Co. for methylated spirit.

Richmond Guardians.—Corbyn, Stacey & Co., Ltd., for the supply of drugs at 7l. 13s. 11½d.

Sheffield Guardians.—British Drug Houses, Ltd., for the supply of drugs and sundries during the ensuing half-year.

Shepshed Urban Council.—Mr. R. Parsons, Shepshed, for the year's supply of disinfectants.

Smallburgh Guardians.—Mr. A. E. Beeston, chemist and druggist, Norwich, for the supply of drugs.

Southampton Town Council.—W. Bates & Co., Ltd., for the annual supply of disinfectants to the hospitals at the following prices: Bond's fluid (Grindley's) at 1s. 1d. per gal.; carbolic acid (97-per-cent. commercial) at 1s. 3d. per gal.; carbolic-acid powder (15-per-cent. commercial) at 2l. 10s. per ton; chloros at 1s. per gal.; chloride of lime at 8s. per cwt.; formalin at 1s. per lb.; commercial glycerin at 1s. per lb.; Izal at 5s. and 2s. 6d. per gal.; Izal powder (No. 1) at 5l. per ton; Jeyes' fluid at 4s. 6d. per gal.; liquor carbo. detergens at 2s. 6d. per lb.; phenate of soda (40-per-cent. solution) at 1s. per gal.; sulphur dioxide (20-oz. cylinders) (Boake, Roberts') at 6l. per gross; smoke-cases for drain-testing (Pain's) at 2l. 14s. per gross.

Southwark Borough Council.—Nineteen tenders were received for the annual supply of disinfectants. The following were accepted: Young & Co., United Alkali Co., Snowdon, Sons & Co., Sanitas Co., and Newton, Chambers & Co.

Stourbridge Guardians.—Mr. Sidney Smith, chemist and druggist, Wordsley, for castor oil at 3s. 6d. per gal., Epsom salts at 1d. per lb., linseed meal at 15s. per cwt., lint at 1s. 3d. per lb., boracic lint at 1s. 3d. per lb., gamgee tissue at 1s. 3d. per lb., gutta-percha tissue at 7s. per lb.; vaseline at 8d. per lb., starch powder at 6d. per lb., zinc powder at 8d. per lb., boric acid at 6d. per lb., single trusses, 1s. 6d., double 2s., methylated spirit at 2s. 6d. per gal.

Strood Guardians.—F. C. Calvert & Co., Manchester, for disinfecting-fluid at 5s. 6d. per doz. pints in lots of six doz.; Sanitas Co., Ltd., for disinfecting-fluid at 9s. per doz. pint bottles

Sudbury Guardians.—Mr. J. J. Harding, chemist, Sudbury, for drugs.

Tottenham Urban District Council.—For annual supplies of disinfectants: A. C. Young & Co. for carbolic powder at 2s. 7½d. per cwt., carbolated creosote at 6½d. per gal., formalin at 4s. 3d. per gal., formalin (tablets) at 2s. 3d. per lb.; Newton, Chambers & Co., for Izal at 3s. 6d. per gal.; the Sanitas Co., Ltd., for sanitas powder at 6s. 6d. per cwt., sanitas fluid at 3s. 2d. per gal., sanitas oil at 10s. per gal., sanitas emulsion at 8s. per gal., sanitas (crude) at 3s. 6d. per gal., sulphur candles at 19s. 9d. per gross; chloride of lime at 6s. per cwt.; Burt, Boulton & Haywood, Ltd., for carbolic acid at 1s. per gal., sulphur candles at 19s. per cwt.; Jeyes' Sanitary Compounds Co., Ltd., for cyllin at 3s. 6d. per gal., and cyllin (crude) at 3s. per gal.

West Ham Education Committee.—For annual supplies of disinfectants: Ed. Cook & Co., Ltd., for disinfectant fluid at 1s. 2d. per gal.; Jeyes' Sanitary Compounds Co., Ltd., for cyllin at 3s. 6d. per gal.; Burt, Boulton & Haywood, Ltd., for Ialine at 3s. per gal.

Whitehaven Town Council.—Sanitas Co., Ltd., for the annual supply of disinfectants.

Agri-Horticultural Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Notices of Application.

ROCHDALE.—S. C. Howarth, 269 Drake Street.

DENBIGH.—H. T. Hughes Peters, Post Office, Llansilin, Oswestry.

Renewals.

BATH.—The Town Council on March 8 decided to renew four licences by thirty-one votes to seven. The local horticulturists memorialised the Council to the effect that "the necessity of sending away, whenever such preparations are required, to the different makers causes us much inconvenience, expense, and loss of time." Dr. Preston King pointed out during the discussion that the Council would become a laughing-stock if they reversed their two former decisions (*C. & D.*, February 5, p. 222).

Westminster Wisdom.

A Record of Parliamentary Progress.

THE POLITICAL SITUATION.

Our Parliamentary representative writes: All legislation, save what is absolutely necessary for the services of the country, is at a standstill, and there is no prospect of the introduction of any departmental legislation, although a number of Bills are "on the stocks," so to speak, in the various Government offices.

DRUGS FOR HOSPITALS.

In the House of Commons on Wednesday, March 16, Mr. A. Fell, M.P. for Great Yarmouth, proposed to ask the Chancellor of the Exchequer whether the hospitals and dispensaries have to pay the increased duties provided by the expired Budget resolutions on the ether, chloroform, and other drugs which they use. Owing, however, to the absence of Mr. Lloyd George, the question was postponed until Monday next.

HALF-HOLIDAYS AT SUB-POST OFFICES.

The Postmaster-General has privately informed Mr. A. H. Gill, M.P. for Bolton, who inquired the number of town sub-offices which enjoy the benefit of a weekly half-holiday and the number of rural sub-offices in which the hours of attendance had been restricted on Bank Holidays, that such statistics are not available and cannot be obtained without some delay. He has assured him, however, that questions of affording relief to sub-postmasters frequently come before him, and are favourably considered wherever possible. In the case of 15,035 rural sub-offices and 5,875 town sub-offices the remuneration has been revised since January 1, 1908, in connection with the recommendations of the Select Committee. There have been no reductions in pay.

AN X-RAY VICTIM.

The Prime Minister was asked in the House of Commons on Monday, March 14, by Mr. Horatio Bottomley, whether his attention had been called to the sad condition of Mr. H. W. Cox, an inventor of and experimenter with apparatus for the application of the x-rays in surgical operations; and whether he would consider the question of advising the grant of a pension from the Civil List. The Prime Minister replied that a substantial grant had already been made from the Royal Bounty Fund in April last. Mr. Bowerman asked whether, in view of the fact that since the grant was made another operation had been performed, involving, he believed, the amputation of an arm, the Prime Minister would give the amount of the grant further consideration.—The Prime Minister replied that he would be willing to give the most careful consideration to any representations that might be made to him on the subject.

THE FORMALDEHYDE PROCESS.

Mr. Hamilton Benn (C., Greenwich) asked the President of the Local Government Board in the House of Commons on Tuesday afternoon whether he had any information in regard to the formaldehyde process, which is largely used in preserving chilled meat in transit; whether his attention had been directed to the Food Report, No. 9, to the Local Government Board, showing its dangerous effects; and whether he is taking any and, if so, what, steps to prohibit its use in connection with meat imported into this country.—Mr. Burns replied that the subject is one that had been carefully investigated by his department, and detailed information regarding the process is contained in the report referred to by the hon. member. That report shows that the process has been used in such a way as to introduce material quantities of formaldehyde into the meat. To this there is a serious objection, but he was advised that it is not essential to the process, and he had been in communication with the importers concerned with a view to a limitation in the amount of formaldehyde employed. Recent samples had shown a marked improvement in this respect. The process remains under careful observation, and in present circumstances it does not seem necessary to take steps to prohibit its use.

Medical Gleanings.

Transmission of Sleeping-sickness.

PROFESSOR E. A. MINCHIN and J. D. Thomson, in a communication to the Royal Society on February 3, gave the following conclusions from their experiments:

That the rat flea (*Ceratophyllus fasciatus*) transmits *Trypanosoma lewis* from infected to non-infected rats.

Transmission takes place by the "cyclical" method, and not by "direct" infection.

The incubation period in a flea is of about six days' minimum duration, while the multiplication period in the rat is about twelve days.

The establishment of the cycle begins in the flea with multiplication of Crithidia-like forms in the rectum. No flagellates were found in any fleas that had not been fed on infected rats.

External Applications for Chronic Rheumatism.

"In the early stages of an acute fibrositis hot fomentations are useful," says Dr. A. P. Luff in "The Lancet" (1910, I. 715). "Afterwards one of the best external applications in my experience is a mixture of equal parts of chloral hydrate, camphor, and menthol. These three substances form a liquid when well rubbed together. This liquid should be painted over the painful area, and then be gently rubbed in with the fingers. Some patients find the cold sensation produced by the menthol objectionable; in such cases the menthol may be omitted and equal parts of chloral hydrate and camphor employed, which also form a liquid when rubbed together. Another useful external application is to paint the painful area with tincture of iodine and then to apply a hot linseed poultice or a very hot fomentation. The heat converts the iodine into vapour, which exercises an anodyne effect and, probably by absorption, directly acts on the affected fibrous tissues. In the later stages the aconite, belladonna, and chloroform liniment applied on lint is frequently most beneficial. In cases of a very localised fibrositis counter-irritation is sometimes of great use, especially in the form of the thermo-cautery." Further on in the article, Dr. Luff says: "No special dieting is required. Moderation should be the keynote of all prone to the various forms of fibrositis, and especially should they avoid foods which their experience has taught them to be apt to produce gastro-intestinal fermentation. It has become of late years a fashionable craze to attribute many of these forms of 'chronic rheumatism' to uric acid, but I am firmly convinced that that harmless by-product of the human economy plays no part whatever in the development of the various forms of chronic rheumatism or fibrositis."

The Week's Poisonings.

THREE deaths have been recorded from poisoning during the week, one of which was due to misadventure.

Ammonia, taken in mistake for whisky, was responsible for the accidental death of John Darragh (60), mill-hand, Belfast.

Chloroform-poisoning caused the death of Annio Maria Payne, cook, Kensington, London, W., whose dead body was found in a wood on Petersham Common. "Suicide while temporarily insane" was the jury's verdict.

Sulphonal.—An accidental overdose of this hypnotic caused the death of Thomas McKay, retired licensed victualler, at Middlesbrough. Mr. T. Close, chemist and druggist, 45 Corporation Road, Middlesbrough, deposed at the inquest that he supplied deceased with sulphonal tablets on three or four occasions during the past few weeks. Deceased obtained a bottle on the Monday, and desired another containing 100 tablets on the following day, but witness demurred. However, deceased said he required to send them away to a friend, so he eventually supplied two bottles of fifty each. Sulphonal had only been added to the Poisons Schedule recently.

A NEW DEPILETORY.—A German patent has been taken out for a depilatory, in which it is stated that the irritating action of sulphide depilatories is obviated. The improvement consists in triturating strontium sulphide $1\frac{1}{2}$ part, with starch 2 parts, and water 8 parts, and heating the mixture to the boiling point with constant stirring.



Postal Address:
C & D. INFORMATION DEPARTMENT 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS LONDON."
Telephone No.: BANK 852 (two lines).

The object of this Department is to supply names and addresses of Manufacturers of, or Agents for, goods pertaining to the Chemical, Drug and Allied Trades. The "Buyers' Guide" in each issue of "The Chemist and Druggist" affords much information, but enquiries for anything not referred to therein may be addressed to this Department. Replies will be furnished immediately, or inserted in this section free of charge.

INFORMATION WANTED.

We would be obliged if any reader would reply by postcard or telephone to one or other of the subjoined enquiries.

- 108/64. Address of the Dr. Wilson Hygienic Co.
- 106/35. "Helenine"; who makes or supplies?
- 105/51. "Handy" label-holder; who makes or sells?
- 107/57. Maker of, or agent for, "Aurora" bandages.
- 110/34. What is "Blandol" and where obtainable?
- 98/2. "Simplex" braces for ladies' wear: makers or supply.
- 110/47.—What is "Anacoeca," and where may it be procured?
- 104/56. What is "Stypium," and where can it be obtained?
- 109/16. Makers or suppliers of "Mortifume," a horticultural fumigant.
- 105/49. What is "Ablosan"; and where can supplies be obtained?
- 103/65. "Ananthine," said to be a disinfectant: what is it or where obtainable?
- 109/38. Makers (?Lancashire) of dyspepsia tablets at 7½d. per packet, with showcard in yellow and black.
- 106/15. Maker of a terebene emulsion miscible in water, used for syringing the vagina of cows in veterinary practice.

INFORMATION SUPPLIED.

During the past week we have answered enquiries regarding the following articles. The information will be repeated to any other enquirers who send to the Department a stamped and addressed envelope for the purpose.

- Antipurine, supply (104/27).
- Anglo-American Dentifrice Co.'s preps. (104/31).
- Bulgarian health chocolate creams, makers (104/37).
- Brandram, sulphur refiners, address (104/35).
- Carlton's pills, etc., maker (105/25).
- "Celandine," proprietors (second inquiry) (106/30).
- Creme Oskito, maker and agent (105/45).
- Crooks' 100 per cent. precipitated cream of tartar, maker (107/37).
- Empty capsules, makers (105/69).
- Enteronol tablets, makers (104/43).
- Fermenlactyl tablets, makers (107/60).
- "Frou Frou" toilet powder, makers (107/11).
- "Helmitol," makers (104/29).
- Ivory black, first-hand dealers (107/37).
- Kerfoot's health salts, makers (107/4).
- King's dandelion pills, proprietors (102/44).
- Lacto-Maltine, makers (105/58).
- Malto - peptone yeast food, makers (107/65).
- Maxim's cure for asthma, consignees (106/34).
- "Marie Antoinette" perfumes, etc. (107/11).
- "Milka," makers (105/48).
- Nyal's Anti-mosquito (103/36).
- Offord hygienic truss, makers (107/50).
- "Ovoferin," makers and agents (106/30).
- Pharmacy schools in North of England (105/20).
- Phenol, British manufacturers (B. of T. inq.) (102/14).
- "Perfect" brace, maker (106/2).
- "Premier" rubber hot-water bottles, maker (104/30).
- Red arsenic in powder, first-hand suppliers (105/22).
- "Ruberoid," makers (107/6).
- "Sapolio," makers and direct supply (105/5).
- Self-fixing bottle capsules, supply (108/18).
- Steel's chloride of lime, makers (104/26).
- Sulphur compound for electrical work, supply (106/36).
- Surgical instruments, makers (104/25).
- Soya oil, refiners and agents (104/15).
- Ultramarine blue, makers and suppliers (107/37).

THE LEONARDO DA VINCI BUST, which was acquired by Dr. Bode for the Berlin Museum, has been the subject of a long discussion as to whether it is genuine or not. The latest phase, as reported in the "Chemiker Zeitung," is that an analysis of the wax composition used in the bust has been made by Dr. Pinkus, who finds that it consists of lac, spermaceti, and beeswax. As spermaceti was not known before 1700, the wax bust cannot be older than that year. Dr. Pinkus further points out that Lucas used the same mixture of lac and spermaceti in his wax figures, and concludes, therefore, that Lucas was in all probability the sculptor of the bust.

Observations and Reflections.

By Xrayser II.

The Information Department

of the *C. & D.* is becoming, if it is not so already, one of the best-read pages. I was specially interested last week on glancing over it, as is now my custom. I found it contained a reference to an article regarding which I had myself sought information from the *C. & D.* Till then I had not given a thought to the immense amount of time and trouble that must be spent in procuring accurate replies to so many questions in one week. If all the inquirers were like myself they must have spent some days in the aggregate before they applied to the *C. & D.*; and had we only thought of it sooner how much worry would we have been saved!

Four Thousand Billion Tons of Nitrogen

is a fair supply, and even if we are in future to obtain all our fertilisers from the atmosphere the stock of nitrogen on hand is sufficient to last our time. What will happen ten thousand years hence is another story. Professor Crossley did not make it clear in his lecture what condition the nitrogen would ultimately assume. Unless it does again return to its "native air," there may come a time when the balance of Nature may be upset, and the atmosphere become much more highly oxygenated than it is at present. Then everybody would have a "short life and a gay one."

The Relief of Pain

by the use of liniments is so universally believed in that the iconoclastic paper of the two experimenters referred to in your last issue must arouse widespread scepticism among doctors and chemists alike. If when applied externally or to the mucous membrane opium has ceased to be an opiate, aconite is no longer a counter-irritant, and cocaine does not anaesthetise, what are we to believe? Experience has told us a thousand times that results have followed the use of these and such-like drugs; and if not to the drugs, to what are the results due? If Short and Salisbury are correct, the hot-water fomentation sprinkled with laudanum owes more to the heat than to the opium, while the poultice of chamomile and poppy-heads must be a delusion and a snare. But if all these things are true, and if all our idols are to be smashed in this way, how is the poor but honest pharmacist to earn a living?

The Doctor in Fiction

is a subject which, like the word "politics," "comprises in itself a study of no inconsiderable magnitude," and it can only be glanced at very briefly in these notes. The memory of every reader will readily recall a score of more or less famous instances so variously treated and of such different degrees of literary merit that to speak of them in order would demand considerable critical ability. The most famous are not always the most convincing. We accept "Sawyer, late Nockemorf," as a figure of fun, without inquiring too closely into the verisimilitude of the portrait; and the three most renowned physicians, in prose literature at all events, Dr. Pedro Rezio of Agüero, the medical attendant of Sancho Panza in his Government of Barataria, Dr. Sangrado, the great blood-letting and hot-water prescriber of Valladolid, in "Gil Blas," and Dr. Slop, in "Tristram Shandy," are all drawn with a broadly humorous intention, mixed, of course, with a considerable spice of satire. Their creators seem, indeed, to have been of the same opinion as the Greeks, who had a proverb to the effect that

if there were no doctors there would be nothing in the world more foolish than grammarians. Scott's most elaborate portrait of a doctor is drawn on somewhat the same lines as these greater figures. This is Dr. Quackleben, in "St. Ronan's Well," who is represented as claiming the right to "regulate medical matters at the spring upon the principle which, of old, assigned the property of a newly discovered country to the buccaneer who committed the earliest piracy on its shores." Dr. Gray, in "The Surgeon's Daughter," is an entirely different character, being a highly sympathetic study of a thoroughly good man. Thackeray's Philip Firmin has, if I remember rightly, a villainous physician for his father. Charles Reade and Wilkie Collins use their doctors, as they do all their characters, chiefly to work out their plots, and as a consequence do not make them very convincing. Trollope's Dr. Thorne, on the contrary, is a lifelike presentation of a genial country practitioner of strong character, which is more than can be said of Charles Kingsley's country doctor in "Two Years Ago." Grant Allen is still further from reality in his sensational story, "The Devil's Die," a fact upon which the "profession" may be congratulated.

"Sermons in Sheep's Clothing"

(to borrow a witty friend's description of George MacDonald's novels) are never convincing, and Paul Faber is quite too good for any such worldly art as the practice of medicine. Dr. William Maclure, created by the late Dr. Watson, of Sefton Park, is reputed to be a portrait of a Perthshire doctor, well known to chemists I know, and faithful to life, they say. M. Benassis, the doctor-philanthropist of one of Balzac's most pleasing novels, is another almost too ideal portrait, though he is said to have been studied from life, and the story of which he is the principal figure is for the most part realistic enough. Other French examples that will occur to everybody are Zola's Dr. Pascal, Flaubert's Charles Bovary, Ohnet's Dr. Rameau, and Malot's Dr. Claude—the last-named being almost as impossible a combination of outward respectability and inward vileness as Stevenson's Dr. Jekyll and Mr. Hyde. I remember at the moment only two famous doctors in Gorman novels, the good old physician (nameless and somewhat shadowy) who plays a considerable part in Göethe's "Wilhelm Meister," and the more strongly individualised Dr. Spheer, the low-comedy figure of Jean Paul Richter's great romance "Titan." American fiction abounds in portraits of medical men of all sorts. Hawthorne and Holmes have each of them several noteworthy sketches, but perhaps the most elaborate portrait of this kind is Mr. Cable's Dr. Sevier. Our first lady-doctor comes from America, in Mr. Howells's "Dr. Breen's Practice," one of the most charming of his little novelettes. Dr. Breen was soon followed by a sister in the art, Mrs. Ward's (E. S. Phelps) Dr. Zay, in the story so called, but this apparently is a story with a purpose. Miss Arabella Kenealy's "Dr. Janet of Harley Street" gives us another lady-doctor, the interest of whose story does not depend entirely upon her profession. And having thus returned to our own country, one recalls another figure of the first importance, Dr. Lydgate, in "Middlemarch," one of George Eliot's finest creations. These hasty jottings—which might be indefinitely prolonged—will serve to show how vast a subject Mr. Waddington has broached.

ACCORDING to the "Brazilian Review" of February 8, the exports of rubber from Brazil in 1909 amounted to 39,026,738 kilos., valued at 18,926,061*l.*, against 38,206,461 kilos., valued at 11,784,637*l.*, in 1908.

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Editorial Articles.

S.V.M. Permits.

A SHORT time ago we had occasion to comment on the delays of the Excise authorities in dealing with traders' applications. We cited instances where chemists desirous of returning unsatisfactory consignments of methylated spirit had been seriously inconvenienced by the non-production of the necessary document from the Excise officials, months sometimes elapsing before the required permit has been forthcoming. The reason of this delay did not, however, lie with local officers, but with the Revenue Board. We are pleased to be able to state that our suggestions for a more business-like method have borne fruit, with the result that similar applications in future will be dealt with promptly and efficiently by the local officers, the Board of Customs and Excise having issued the following regulation:

"If a retailer or an authorised user of methylated spirits wishes to return methylated spirits to the methylator who supplied them and the latter is willing to receive them into stock, the supervisor, if satisfied that there is no objection, may allow the spirits to be returned on an application in writing being made to him by the methylator for permission to receive them. The permit which accompanied the spirits should be returned with them appropriately endorsed by the supervisor, or a fresh permit may be issued by him if necessary, the officer surveying the methylator being advised that the return of the spirits has been authorised. The quantity received back into stock must be duly entered in the methylator's stock-book. Any case of doubt or difficulty should be reported to the Board."

Chemists will now know on whose shoulders to lay the blame should delay occur in the future. But an even more important principle has come out of the matter, the Board of Customs and Excise having seen their way to relax that stringent method of administration which entailed many comparatively trivial matters being referred to headquarters. Instead of this, the Board are now giving local officers a larger measure of power, and this is expressed in respect to methylated-spirit permits in the following new regulation:

"If a permit to correspond with any counterpart from which a requisition has been taken is not produced within a reasonable time, the circumstances are to be reported by the officer to the supervisor, who, if satisfied after inquiry that the spirits were duly received and that the permit issued has been lost, may allow credit for the missing document, placing his initials and the words 'Credit Allowed' against the relative entry in the officer's survey book. When any irregularity in connection with the non-production of a permit is discovered, or suspected, the case should be reported to the Board."

This new principle of entrusting the local staff to deal with matters of more or less frequent occurrence is an

earnest of the endeavour of the new Revenue Commissioners to do work on strictly business lines and to overhaul the cumbrous antiquated methods of the past. Many persons have thought that the Excise Department had got into a rut, and certainly such reforms as these testify to the soundness of the policy in amalgamating this Department with that of the Customs—an amalgamation, said Mr. Asquith in his 1907 Budget, in the interests of economy and efficiency. Thoroughness is not wanting in this new administrative principle of the amalgamated Board. The methylator is to have the benefit of the short shrift should he also fail to produce a requisition or permit. Instructions are issued to treat his case on all fours with that of the user or retailer. Besides the methylator and his customers, the Board of Customs and Excise have extended the new devolution principle to potable spirits, including alcohol used for galenicals, etc. Another class of offence comes within the scope of the new order of things. It relates to cases where the licence is mislaid in the event of a business being transferred to a successor. In all these instances the principle is adopted of leaving routine details to the local man and dealing with the more important matters at the chief office.

The Spirit Duty.

SINCE we wrote on this subject in the *C. & D.*, February 5, p. 219, the Government has changed its mind about making the Finance Bill "one of the earliest measures to be considered by the new Parliament." We then remarked that there was reason to believe "that the continuance of the additional duty of 3s. 9d. per proof gallon in the next financial year is doubtful." The *C. & D.* was the first to give publicity to this information. The subject has since been taken up by the "Daily Telegraph," which, in addition to the reference that we quoted last week, has discussed the matter at some length, chiefly from the point of view of the Nationalist party ("D.T.," March 12). Our contemporary gives, however, practically no additional information, except that it has been definitely intimated to the responsible Government officers, by an informal deputation of Irish and Scotch whisky-distillers and the English gin-distillers, that after March 31 they will refuse to pay the extra duty. This appears to be well founded. When the Chancellor of the Exchequer proposed the additional duty of 3s. 9d. on home-distilled spirits and an additional Customs-duty of 6s. per gal. on perfumed spirits and 5s. 1d. on liqueurs, cordials, and other imported spirituous preparations, he anticipated that a substantial increase in the rates of duty would not produce an appreciable amount of revenue—that is, an increase proportionate to the duty then obtained on the 11s. basis. As a matter of fact, he anticipated an additional revenue of 1,600,000l., which for a third more duty is a little less than a tenth of the total yield of the 11s. duty from British-distilled spirits in the financial year 1908-9, when the actual yield was 17,456,366l., besides the Customs-duty of 3,961,000l. Instead of an increase, however, there has been a large decrease in revenue from duty paid on spirits delivered for home consumption since the Budget speech. Up to February 19, 1910, 16,484,000l., including deposits of 3s. 9d. per proof gallon and the higher Customs equivalents, was paid, against 18,656,000l. for the corresponding period of 1908-9. Allowing for reduced clearances from bond, owing to manufacturers, merchants, and others working with hand-to-mouth supplies, it is apparent that the increased duty has failed in its immediate purpose—namely, increased revenue. Fiscal authorities have long wondered

what effect a big increase of the duties on alcoholic liquors would have. They had practically come to the conclusion that 10s. a proof gallon was the limit of profitable yield, and, certainly, since two additional sixpences of duty have been added, consumption has been checked; but there remained the question whether a big increase such as Mr. Lloyd George's 3s. 9d. would not yield more revenue while reducing the consumption. So far it has not. The secondary object which the Chancellor of the Exchequer had in view was to counteract excess in the drinking of whisky, as to which he said:

"The money not spent in whisky will be spent in other ways—in food, in clothes, in other things—and all this means employment; and so, from that point of view, though we must regret the throwing out of employment of some hundreds of men, there will be so much more employment in other directions, and though I am out of my reckoning to the extent of 800,000l. on whisky, I cannot pretend to regret it."

The time has been too short to determine whether whisky-drinking has diminished or not; and the only available data are furnished by the head constable of Glasgow, who reports that drunkenness charges there have largely decreased since the whisky duty was increased. The distillers' output has certainly decreased, but it is stated that—

"The public, instead of keeping to its fine old matured whiskies, has gone to the new cheap varieties, and most of the large firms are left with fine old stocks on their hands, as the demand for them has quite fallen off."

If promotion of temperance was an indispensable part of the Budget proposal its success or failure has not been determined by a year's trial; but in the present uncertain state of political tenure, and the opposition of the Irish parties to the increased duty, sufficient experience has been gained to warrant a Chancellor of the Exchequer to abandon the increase since it has failed in its primary object. In a well-informed circle it is suggested that the whole of the 3s. 9d. will not be removed, but that the total duty will be reduced to 12s. per proof gallon. This is an ingenious suggestion, which takes into account the indisposition of revenue authorities to remove any fiscal duty completely. Some reduction is necessary; the enhanced cost of pure spirit has materially curtailed its use for medicinal and industrial purposes, and substitutes have been found for it in glycerin, acetic acid, and other solvents. If the duty is kept at the present high level the use of such substitutes will continue and increase, and the British Pharmacopœia authorities may require to prescribe them, so as to ensure therapeutic efficiency and uniformity. In the latter respect a mass of information is already available, and might have been officially utilised before now had the economic necessity arisen.

Medical and Dental.

THE 1910 edition of "The Medical Register" has just been published by the General Medical Council (Spottiswoode & Co. Ltd., 10s. 6d.). It contains the names of all those entitled to practise as medical men in the United Kingdom, the total being 39,818 at the end of 1909. Since the last "Register" was published there have been 960 names removed under Section XIV. of the Medical Act, which empowers the Registrar to remove the names of those persons whose addresses have not been communicated or who have not responded to a letter sent by that official. In addition to the erasures thus carried out, 713 names were removed on evidence of death, nine because the persons named ceased to practise, and six were removed for "infamous conduct." The names added by registration were 1,143 (551 England, 435 Scotland, 157 Ireland),

this being below the average of the last five years (1,187). There are separate lists of the practitioners registered by reason of reciprocal arrangements with the Colonies and foreign countries. "The Dentists' Register" for 1910 is another publication of the General Medical Council (Spottiswoode & Co. Ltd., 3s. 4d.). This contains lists of persons qualified to practise as dentists in the United Kingdom, with separate sections devoted to Colonial and foreign qualified men. Of the names on the Colonial list two are registered with a Melbourne qualification, and two with the Bac. Den. Surg. of the Sydney University. Three of these have addresses in the United Kingdom. Those on the foreign list (twenty-two) are registered as possessing either the D.M.D. Harvard or D.D.S. Michigan. The statistics which accompany the register show that there are 5,037 names registered at the end of 1909, against 4,994 at the corresponding period of 1908. The number of those registered as being in practice at the passing of the Dentists Act 1878 is 1,948, against 2,043 in the previous register. This is a natural shrinkage, and it is an interesting speculation as to how long it will take before this class of registered persons is extinct. Among the comparatively rare qualifications we note that the Universities of Liverpool, Birmingham, Manchester, and Leeds have thirteen persons on the register who have taken their dental degrees at these provincial Universities, Manchester heading the list with nine diploma holders. The General Medical Council have also placed on sale the "Report as to the Conditions under which Medical and Dental Practitioners Registered or Legally Qualified in their own Country may Practise Abroad" (Spottiswoode & Co. Ltd., 1s.), which has been drawn up under the supervision of the Registrar. This gives particulars of 121 places in British dominions and foreign countries. A list of questions is given which were addressed to officials in the Colonies and foreign countries, and the answers are arranged with corresponding figures under the names of the countries. There are still, it appears, a few countries where the practice of dentistry is open. Peru seems to be the most inaccessible place for medical practitioners with qualifications obtained in the United Kingdom; "a special examination conducted in Spanish is insisted upon, the difficulties of which are made so great that it is practically impossible for anyone to pass."

Poison Regulations.

We have wondered why we have recently received an unusual number of inquiries from retailers and wholesalers in regard to new poison regulations which were said to cover such things as camphorated oil and mineral acids. The mystery is now explained. A South London chemist has recently issued a handbill of which the following are the essential parts:

Important Notice.

Regulations now to be observed by shopkeepers selling and storing all liniments, embrocations, liquid disinfectants, and strong acids which must not be taken internally, such as sulphuric, nitric, hydrochloric, etc.

REGULATIONS REFERRED TO ABOVE.

1st.—That in the selling of all liniments, embrocations, lotions, and liquid disinfectants, they must be sold in bottles distinguishable by touch from ordinary medicine-bottles, and that there also be affixed to each bottle ("in addition to the name of the article and to any particular instructions for its use") a label giving notice that the contents of the bottle are not to be taken internally.

2nd.—Bulk packages.—All bottles must be distinguishable by touch from other bottles in which ordinary articles are kept in the same warehouse or shop.

3rd.—The penalty provided by statute for any contravention of these regulations is 5s. for each offence. There are no such regulations. Those made under the Pharmacy Act, 1868, refer solely to the dispensing and selling of *poisons scheduled in accordance* with that Act as amended by the 1908 Act, and they require that "all liniments, embrocations, lotions, and liquid disinfectants containing poison be sent out in bottles rendered distinguishable by touch from ordinary medicine-bottles." Omission of reference to poison in the handbill is the misleading part of it. It is no doubt desirable that other dangerous substances should be sold in bottles different from ordinary medicine-bottles, but that has not yet the force of law.

The Refractive Index of Essential and Fixed Oils.

By T. F. Harvey, Ph.C., F.C.S., and J. M. Wilkie, B.Sc., A.I.C.

THE observation of the refractive index of a fluid substance is so conveniently and rapidly made with modern instruments, and requires so small an amount of material, that it is worth observing even in those cases where (as with many essential oils) the information obtained is not of much diagnostic value. It still serves in these cases to mark, for example, sudden changes in the character of supplies and to make rapid comparisons between bulk consignment and buying samples, etc. For technical purposes the Abbé refractometer (scale 1.3000 to 1.7000), with water-jacketed prisms connected with a heating-apparatus, is commonly used. In this instrument about two drops of the liquid is enclosed as a thin film between the faces of two prisms made of suitable glass, light (which may be artificial) being reflected from a mirror through the prisms. The refractive index is recorded upon a scale reading directly to the third decimal, the fourth place being obtained by eye-estimation. A number of consecutive readings should yield figures not differing by more than about 0.0002. The adjustment may be checked occasionally with pure distilled water, which has an index of 1.3330 at 20° C. A heating-apparatus is provided in order to bring the circulating water, and consequently the prisms, to a constant temperature, which may be arbitrarily chosen, and which for solid fats, such as butter, etc., is usually 40° C., and for liquid substances 20° C.

It is highly important that no observations should be made without using the water-jacket and apparatus for securing a constant temperature and pressure: no reliable results can be obtained without controlling the temperature of the prisms in this way. On the other hand, the water need not necessarily be heated: advantage may be taken of the very constant temperature of the water flowing from town mains (which usually varies from 9° to 10° C. in winter to 15° C. in hot weather) to maintain the prisms at constant temperature, it being only necessary to turn on the supply and allow half an hour to elapse before taking any readings. This is the most convenient way of working. It is, of course, necessary to correct these readings to the standard temperature, using for this purpose the table of corrections given below, which has been experimentally ascertained for each particular substance mentioned. The corrections are + for temperatures above 20° C., and — for temperatures below 20° C. Thus, if a sample of olive oil be observed to have an index of 1.4712 at 14° C., the correction is — (6×0.00036) = -0.00216 (0.0022), and $1.4712 - 0.0022 = 1.4690$, which is the refractive index at 20° C.

The refractive indices recorded in the following tables refer to genuine oils only, so far as it is possible to ascertain the characters of an oil from a consideration of its analysis, taken along with collateral circumstances. So far as essential oils are concerned, it should be remembered that the figures chiefly refer to comparatively fresh or unexposed oils; they tend, therefore, to be "restrictive" rather than inclusive. A moment's consideration shows that an essential oil which has a certain refractive index when fresh cannot be expected to remain unaltered during, say, twelve months' storage and handling, in partly filled vessels, often in very small quantity, as in the ordinary processes of commerce. With a fixed oil on the other hand, the natural variation of refractive index is comparatively small, and the oil is not subject to strongly marked alteration on keeping, except in the case of carelessly stored "drying" or "semi-drying" oils. While, therefore, the inclusion of the refractive indices of essential oils in a Pharmacopœia is of doubtful value, those of fixed oils have considerable diagnostic value, and might well be included.

Volatile Oils (B.P. 1898).

Standard of Comparison: Water=1.3330 at 20° C.

Oil	Number of Samples	Refractive Index at 20° C.
Anise	41	1.5519-1.5564
Cajuput	26	1.4617-1.4694
Caraway	23	1.4855-1.4879
Chamomile	10 } 9 samples	1.4427-1.4436
	1 " "	1.4452
Cinnamon	10	1.5858-1.5898
Clove	75	1.5300-1.5319
Copaiba	18	1.4939-1.4984
Coriander	5	1.4634-1.4677
Cubeb	22	1.4921-1.4992
Dill	11	1.4842-1.4874
Eucalyptus	55 } 52 samples	1.4594-1.4626
	3 " "	1.4644-1.4643
	41 samples	1.4710-1.4718
Juniper	42 } 1 " "	1.4796
Lavender	37	1.4605-1.4644
Lemon	83	1.4739-1.4759
Mustard	5	1.5280-1.5300
Nutmeg	18	1.4766-1.4841
Peppermint	66	1.4589-1.4 36
Pimento	10	1.5298-1.5365
<i>Pinus pumilio</i>	9	1.4750-1.4786
Rosemary	41	1.4662-1.4710
Santal	66	1.5035-1.5084
Spearmint	7	1.4844-1.4871
Turpentine	204	1.4697-1.4715

Volatile Oils (Non-Official), etc.

Oil	Number of Samples	Refractive Index at 20° C.
Almond oil, Natural ...	1	1.5449
" Artificial (benz-aldehyde)	20	1.5440-1.5466
Bay oil	23	1.5099-1.5197
Bergamot oil	42	1.4647-1.4674
Camphor oil, light ...	8	1.4760-1.4812
Canada Balsam oil ...	18	1.4724-1.4780
Canada " Balsam " ...	19	1.5187-1.5243
Cassia oil	11	1.6015-1.6052
Cedarwood oil	8	1.5021-1.5056
Citronella oil	12	1.4772-1.4841
Cumin oil	8	1.4971-1.5045
"Eucalyptol" (freezing-point = +1° + 2° C.) ...	7	1.4571-1.4574
Fennel oil	11	1.5266-1.5366
Lemon oil, terpeneless ...	9	1.4776-1.4812
Lemongrass oil	35	1.4838-1.4867
Orange oil, sweet and bitter	10	1.4720-1.4749
Palmarosa oil	34	1.4712-1.4759
Parsley oil	2	1.5151-1.5160
Pennyroyal oil	19	1.4800-1.4860
<i>Pinus pectinata</i> oil ...	5	1.4717-1.4730
<i>Pinus sibirica</i> oil ...	2	1.4691-1.4708
Rue oil	1	1.4331
Sage oil, Dalmatian ...	8	1.4618-1.4663
Sassafras oil	13	1.5237-1.5304
Savin oil	3	1.4741-1.4748
Spike oil	6	1.4647-1.4661
Wintergreen oil (<i>Betula lenta</i>)	24	1.5356-1.5370
Wormwood oil	1	1.4738
Venice turpentine oil (genuine)	10	1.4680-1.4704
" Venice turpentine " (genuine)	2	1.5177-1.5183

Fixed Oils.

Oil	Number of Samples	Refractive Index at 20° C.
Almond	191	1.4701-1.4712
Apricot-kernel	54	1.4703-1.4719
Arachis	1	1.4698
Castor	166	1.4781-1.4790

Oil	Number of Samples	Refractive Index at 20° C.
Cod-liver	296	1.4776-1.4825
Cotton-seed	1	1.4722
Croton (rot. 100 mm. + 7.92-8.20)	5	1.4781-1.4790
Linseed	147	1.4799-1.4823
Maize	5	1.4732-1.4752
Mustard	38	1.4742-1.4757
Neatsfoot	71	1.4674-1.4690
Olive	243	1.4683-1.4697
Poppy-seed	28	1.4747-1.4754
Rape	102	1.4721-1.4742
Sesame	18	1.4716-1.4733
Sperm	42	1.4639-1.4656
Whale	15	1.4720-1.4759

CORRECTIONS FOR REFRACTIVE INDICES.

Volatile Oils (B.P. 1898).

Oil	Correction	Oil	Correction
Anise ... ..	... 0.00052	Juniper ... ..	... 0.00048
Cajuput ... ..	... 0.00046	Lavender ... ..	... 0.00045
Caraway ... ..	... 0.00046	Lemon ... ..	... 0.00046
Chamomile ... ..	... 0.00047	Nutmeg ... ..	... 0.00049
Cinnamon ... ..	... 0.00048	Peppermint ... ..	... 0.00043
Clove ... ..	... 0.00045	Pimento ... ..	... 0.00 48
Copaiba ... ..	... 0.00044	<i>Pinus pumilio</i> ... ..	... 0.00047
Coriander ... ..	... 0.00046	Rosemary ... ..	... 0.00045
Cubeb ... ..	... 0.00044	Santal ... ..	... 0.00039
Dill ... ..	... 0.00047	Spearmint ... ..	... 0.00047
Eucalyptus ... ..	... 0.00048	Turpentine ... ..	... 0.00048

Volatile Oils (Non-official).

Oil	Correction	Oil	Correction
Almond oil, Artificial ...	0.00012	Orange oil ... ..	... 0.00047
Bay oil ... ..	... 0.00049	Palmarosa oil ... ..	... 0.00043
Bergamot oil ... ..	... 0.00048	Pennyroyal oil ... ..	... 0.00043
Camphor oil, Light] ...	0.0 045	<i>Pinus pectinata</i> oil ...	... 0.00051
Canada Balsam oil ...	... 0.00048	<i>Pinus sibirica</i> oil ...	... 0.00045
Canada Balsam ... ..	... 0.00039	Rue oil ... ..	... 0.00045
Cassia oil ... ..	... 0.00046	Sage oil ... ..	... 0.00042
Cedarwood oil ... ..	... 0.00 42	Sassafras oil ... ..	... 0.00 045
Citronella oil ... ..	... 0.00048	Savin oil ... ..	... 0.00044
Cumin oil ... ..	... 0.00049	Wintergreen oil ... ..	... 0.00048
Fennel oil ... ..	... 0.00049	Venice Turpentine ...	... 0.00035
Lemongrass oil ... ..	... 0.00048		

Fixed Oils.

Oil	Correction	Oil	Correction
Almond ... ..	... 0.00036	Mustard ... ..	... 0.00037
Apricot Kernel ... ..	... 0.00036	Neatsfoot ... ..	... 0.00037
Arachis ... ..	... 0.000 6	Olive ... ..	... 0.00036
Castor ... ..	... 0.00038	Poppyseed ... ..	... 0.00037
Cod-liver ... ..	... 0.00037	Rape ... ..	... 0.00037
Cottonseed ... ..	... 0.00037	Sesame ... ..	... 0.00037
Linseed ... ..	... 0.00038	Sperm ... ..	... 0.00037
Maize ... ..	... 0.00037	Whale ... ..	... 0.00037

The authors desire to record their thanks to Boots' Pure Drug Co., Ltd., in whose laboratories the observations were made.

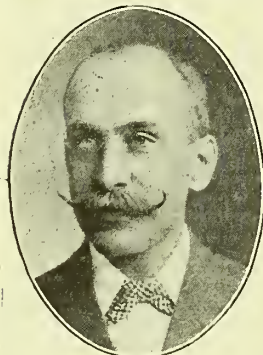
RECEIVERSHIPS.—The following appointments are notified: *Allen & Sons, Ltd.*; G. Ward, 14 Brown Street, Manchester. *Pacific Nitrate Co., Ltd.*; J. S. Harmood Banner, M.P., 24 North John Street, Liverpool.

MORTGAGES AND CHARGES.—Particulars of the following have been filed: *Cadas, Ltd.* Issue of 7,500l. debentures. Trustee, G. W. Bennett.—*Dover and District Mineral-water Manufacturing Co., Ltd.* Issue of 2,400l. debentures. Trustees, Capital and Counties Bank, Ltd.—*H. G. Sanders & Son, Ltd.* Issue of 500l. debentures.—*H. P. Tracitt, Ltd.* Mortgage dated February 10, 1910, to secure all moneys due or to become due to the London City and Midland Bank, Ltd., charged on leasehold premises in Old Bond Street, W.—*W. Eccritt, Ltd.* Issue of 425l. debentures.—*Edward Gorton, Ltd.* Issue of 1,500l. debentures.—*International Salt Co., Ltd.* Mortgage to secure 4,000l.; holders, London, City and Midland Bank, Ltd.—*Synoloids, Ltd.* Second debenture to secure 20l.; holder, H. J. Mallabar, Inwood, Dartmouth Road, Brondesbury. Third debentures to the amount of 566l. 17s. 6d. issued, charged on the company's undertaking and property.

Winter Session.

Brief Records.

West Ham Pharmacists' Association.—The annual meeting was held at Earlham Hall, Forest Gate, on Thursday, March 10, Mr. Henry Soper presiding. Messrs. Blades, Cleland, Cocker, Eastman, Evans (Hon. Secretary), James,



MR. T. H. SEED.

Johnson, Jones, Lord, Mitchell, Mortimer, Raynor, Seed, Stott, and White were also present. After the minutes and correspondence were disposed of, the Secretary reported upon the annual dinner and submitted the annual report and balance-sheet, showing that nearly 167 was in hand. These were adopted. A ballot was then taken for the election of a President, and Mr. T. H. Seed obtained a majority of votes, whereupon his election was made unanimous on the motion of Mr. Mitchell, seconded by Mr. Cleland, and supported by Mr. E. James. In accordance with custom Mr. Soper becomes a Vice-President, and the meeting elected Messrs. W. W. Blades, A. H. Cleland, H. Cocker, E. James, H. Mitchell, W. Potter, and E. J. Raynor as members of committee. Mr. J. E. Evans was re-elected Hon. Secretary and Treasurer, and Messrs. Johnson and Raine auditors. Mr. Soper, the retiring President, and other officers were cordially thanked for their services. Mr. Seed then took the chair, and a discussion was opened upon early closing in Leyton and West Ham. The matter is to come up again. Mr. Soper announced that Mr. David Howard, F.I.C., F.C.S., will deliver the inaugural address for the new session on April 14, at 3 p.m.

Lancaster Chemists' Association.—Mr. Jackson has resigned the Press-Secretaryship of this Association and is succeeded by Mr. William Gorst, 25 Market Street, Lancaster.

Bath Pharmaceutical Association.—A meeting was held at the Literary Institution on March 10, Mr. W. J. Hallet (President) in the chair. There were also present Messrs. J. W. Cooper, A. H. Cooper, L. Wilson, Roberts, D. A. Evans, and W. J. Spurway. A paper was read by Mr. H. Roberts on "Modern Therapeutics from a Pharmaceutical Point of View." The paper came in for a good discussion.

Huddersfield Chemists' Association.—A meeting was held at the Queen Hotel on Tuesday evening, March 15, Mr. R. Stephens (President) in the chair. The Preston Association's action re spirituous medicines was approved, as also was the National Union of Assistant Pharmacists' proposal to secure the election of a representative on the Pharmaceutical Council. It was decided to discuss the smallness of the profits on P.A.T.A. goods at the next meeting.

Carlisle Chemists' Association.—The annual meeting was held in the Viaduct Hotel on March 10. Mr. Ridley (Vice-President) in the chair. After the adoption of the balance-sheet, the following officers were elected for the ensuing year: President, Mr. T. Ridley; Vice-President, Mr. C. M. Dalziel; Secretary and Treasurer, Mr. J. J. Robinson. Many interesting matters were discussed, and it was announced that Mr. Chater, of the Pharmaceutical Society, would address a meeting of the chemists of Carlisle and district at Carlisle on March 17.

Irish Chemists' Assistants' Association.—A meeting was held at Talbot Street, Dublin, on March 10, with Mr. Rudge in the chair. It was announced that new premises had been obtained for club and meeting purposes at 12 Harcourt Street, and it was hoped that the more central position would be found a convenience to city assistants. The number of members is now over 200. It was also mentioned that the Dublin Retail Drug Trade Association is holding a meeting on March 22 to consider the question of assistants' hours and the weekly half-holiday. Mr. Harmel and Mr. Higgins also addressed the meeting.

Birkenhead and Wirral Association of Pharmacists.—A meeting was held at the rooms, Hamilton Street, Birkenhead, on March 10. The President (Mr. C. H. Sturt) was in the chair. A communication from the Preston Association with reference to the sale of spirituous preparations was deferred until the next meeting. Mr. W. A. Wynne, Ph.C.,

F.S.M.C., delivered a lecture on "The Human Eye and Spectacles." He traced the evolution of the knowledge of optics, giving a concise account of the various discoveries in connection with the science. The defects of the eye and the methods of correcting them were then dealt with. A vote of thanks was accorded to the lecturer.

Wolverhampton Chemists' Association.—The annual meeting was held at the Star and Garter Hotel on March 9. There were present Messrs. Dunn (in chair), Stanway, Hunt, Warner, H. Warner, Hall, Fellows, Gibson, Phillips, Goodwin, Willcock, Trott, and J. H. Coleman (Secretary). The retiring officers were re-elected: Mr. W. R. Dunn (Oakengates), President; Mr. H. Fellows, Vice-President; Mr. J. H. Coleman, Secretary (for the eleventh time); Mr. S. Phillips, Treasurer; and Messrs. H. Forster, F. J. Gibson, F. J. Goodwin, M. R. Warner, and F. A. Willcock as the committee. Four guineas was voted to the Benevolent Fund of the Pharmaceutical Society.

Northampton Pharmacists' Association.—A meeting was held on March 15, Mr. E. Dennis (President) in the chair, Messrs. W. McKinnell, W. D. Mayger, D. McKinnell, L. North, G. Ingle, W. Gatehouse, F. C. Ashford, H. Rolfe, J. Flinton Harris, and Fred Cowdery (Hon. Secretary) were also present. Following upon the Preston Chemists' Association's letter re the sale of medicated wines and spirits by unlicensed persons, the Secretary was instructed to ask the local Inland Revenue officers to enforce the law in the district. Mr. H. Garratt wrote asking the opinion of the Association on "face-value" or "limited cut" on proprietary articles. The members were in favour of "face-value."

Dundee C. A. and A. Association.—The closing meeting of the session was held in Mather's Hotel on Friday, March 4. The successful writers in the Essay Competitions read their essays, assistants on "Impressions of the Drug-trade," and apprentices on "An Apprentice's Life Day by Day." The prizewinners are: In Assistants' Section—1, Mr. T. Young; 2, Mr. G. S. Brown; and 3, Mr. J. C. Milne. A special prize was also awarded to Miss B. Webster as the only lady who entered this section. In the Apprentices' Section the winners were: 1, Miss M. Macintyre; 2, Mr. W. D. Lees; 3, Mr. H. W. Caird. Prizes were given by Messrs. Evans Sons Lescher & Webb, Liverpool; Messrs. T. & H. Smith, Ltd., Edinburgh; Messrs. Pinkerton, Gibson & Co., Edinburgh; the Editor of THE CHEMIST AND DRUGGIST; Mr. John Anderson, Dundee; and Mr. A. T. Whyte, Dundee.

Manchester Pharmaceutical Association.—A meeting was held in the rooms of the Chemical Club, Victoria Hotel, on Wednesday, March 9, at 7.30 p.m. Some twenty members assembled to discuss the Poisons and Pharmacy Act, 1908, which constituted the subject for the evening. Mr. F. W. Bates presided, in the absence of the President and Vice-Presidents and a very interesting evening resulted. Three short addresses of about half an hour's duration were given. Mr. J. Grier, M.Sc., confined his remarks to the "Education Clause," Mr. W. Kirkby, M.Sc., discussed "The New Poisons Schedule," and Mr. W. Lane spoke on "Legal Aspects of the New Act." The discussion evoked was of such interest that it was decided to adjourn it to the annual meeting in April next. Among those who spoke were the Chairman, Mr. Blackburn, Mr. Lane, Mr. Vallance, and the readers of the papers.

Chemists' and Druggists' Society of Ireland.—The committee of this Society met at 11 Waring Street, Belfast, on March 10, Mr. Wm. Haslett (President) in the chair. The other members present were Messrs. J. D. Carse, S. Suffern, J. Moffet, Wm. Martin, J. Richardson, J. Frackelton, S. E. Kee, Wm. Jamison, M.C.P.S.I., W. J. Busby, S. Gibson, J. P., W. J. Gibson, Jacob Walsh, S. McDowell, D. Manson, Jas. Macauley, W. J. Rankin, and R. A. Jamison. The following sub-committees were elected: *Law Committee.*—Messrs. S. E. Kee, S. Suffern, J. Walsh, S. Gibson, J. D. Carse, the President and Secretary to be members *ex officio*. *Room and Educational.*—J. Frackelton, E. J. Roberts, Jas. Moffet, W. J. Busby, D. Manson. *Social Committee.*—Jas. Macauley, Wm. Martin, J. Frackelton, J. Richardson, W. J. Busby. *Finance Committee.*—Wm. Jamison, S. Gibson, S. McDowell, J. Walsh, Wm. Martin.

Grimsby Pharmacists' Association.—The annual meeting was held at Walton's Hotel, Grimsby, on Thursday, March 10. Among those present were Messrs. Cor. Willson (President), C. H. Ashton, D. Brocklesby, H. W. Colley, C. Dewing, T. W. Ellis, W. G. Robinson, E. Sigley, T. D. Sneath, and the Hon. Secretaries (C. N. Chapman and F. W. Heely). The Secretaries presented their annual report and balance-sheet, and, in moving their adoption, the President thanked Messrs. Chapman and Heely for their work. Officers were then elected—viz.: President, Mr. Cor Willson; Vice-President, Mr. T. D. Sneath; Treasurer, Mr. R. C. Johnson; Secretaries, Messrs. C. H. Ashton and C. N. Chapman;

Council, Messrs. H. W. Colley, T. W. Ellis, J. A. Hawdon, F. W. Heely, and W. C. Humphrey; Auditors, Messrs. W. Barker and W. G. Robinson. Mr. E. M. Fletcher was elected a member. Some correspondence was dealt with, as well as the question of granting poison-licences.

Ipswich Chemists' Association.—The first lecture in connection with this Association was given in the Museum Lecture Hall on March 16, Alderman S. R. Anness (President) occupying the chair. Mr. T. Maben (Messrs. Parke, Davis & Co.) delivered a lantern-lecture on "Bacteriology in its application to medicine." He said that Dr. Andrew Smart, an Edinburgh medical man, was the first (in 1865) to publish an illustration of bacteria in tissue, the particular organism which he isolated being that which produces rinderpest. The first bacillus of medical interest—the anthrax bacillus—was discovered about 1869, and isolated by Pasteur and Koch a few years later. The lecturer then sketched the history of other bacilli, and gave details of the preparation of the serums employed in combating diseases caused by bacteria. The manufacture of tuberculin and opsonic treatment by serums were also dealt with. A vote of thanks to Mr. Maben and to Mr. J. C. Wiggin (who manipulated the lantern) concluded the meeting.

Edinburgh Pharmacy Athletic Club.—The nineteenth meeting was held at 36 York Place, Edinburgh, on March 14, Mr. Geo. Hadden presiding. The Secretary's report showed that the club is more prosperous than it has ever been before, the membership being 160, and there is a credit balance of 117. 9s. 5d. All the sections had been well supported. The following office-bearers were elected: Hon. President, Mr. D. B. Dott, F.I.C.; President, Mr. J. H. Taylor; Vice-President, Mr. E. O. Rowland; Hon. Secretary, Mr. W. H. Chambers; Assistant Secretary, Mr. A. Mallen; Hon. Treasurer, Mr. F. W. Clements; Committee, Messrs. G. Hadden, G. Margach, J. Manson, W. Richardson, J. P. Gibb, T. Bell, and J. D. Hamilton. A donation of one guinea was voted to the Benevolent Fund. During the evening Mr. J. Rutherford Hill presented the prizes for swimming to (1) G. Somerville, (2) G. Dodds, (3) W. Paxton, (4) D. Hunter; for billiards to (1) J. Marshall, (2) J. Halliday; and for bowling to (1) M. Illwright Cup) J. H. Taylor, (2) J. Tait, (3) G. Margach, (4) J. Cochrane, (5) W. Richardson, (6) G. Mark, (7) J. P. Gibb, (8) W. H. Chambers.

Optical Federation.—A meeting of the Manchester and North of England Optical Society was held on March 9 at the Albion Hotel, Manchester, Mr. J. C. Kidd (the President) in the chair. It was reported by the Hon. Secretary (Mr. Alf. Hershberg) that the following Societies have agreed to send representatives to the Optical Conference to be held in Manchester to consider the question of federating the existing Optical Societies: The Scottish Optical Society, the Glasgow Optical Association, the West Riding Optical Society, the Midland Optical Society, the Northern Counties Optical Society, the Manchester and North of England Optical Society, and the National Association of Goldsmiths. It was decided to hold the Conference on the third Wednesday in April to decide on future action if the Federation idea be approved. The Chairman reported regarding an interview with the Board of Management of the Manchester Royal Eye Hospital, to which a reply has been promised. An address on "Ophthalmic Instruments" was then delivered by Mr. H. S. Rylands, of the Northampton Institute, London, to whom a vote of thanks was accorded at the close.

Thames Valley Pharmacists' Association.—A well-attended business meeting was held at the Thames Valley Café, Kingston-on-Thames, on Wednesday evening, March 16. Mr. F. Harvey (President) in the chair. Among those present were Messrs. Bunker and Palmer (Twickenham), Clement (Hampton), Totten (Raynes Park), Evans (Purfrey), Clarke, Batty, and Windemer (Surbiton), Neathercoat (Weybridge), A. Higgs, J.P. (Kingston). The question of the place-word "pharmacy" was well debated, and the following resolution was passed:

"The Thames Valley Pharmacists' Association urge upon the Council of the Pharmaceutical Society the desirability for securing the place-name 'pharmacy' being reserved for the use of pharmacists alone, and have the utmost confidence in their efforts to attain this end either by Act of Parliament or through the Law Courts."

Discussion ensued on the constitution of the present Council of the Society, and further consideration of questions involved was postponed until May 4. It was decided to have a supper at Kingston on Wednesday, April 20, and to invite ladies. The arrangements were left in the hands of Messrs Harvey, Windemer, and Higgs.

Fifeshire Pharmaceutical Association.—A meeting was held at Kirkcaldy on Wednesday, March 16, at 3.15. There was a good attendance, over which Mr. David Storrar presided, as the principal business of the meeting was an address by Mr. D. Gilmour (President, and member of the

Pharmaceutical Council) on recent pharmaceutical events. Mr. Gilmour passed in rapid review the outstanding features of the work of the Pharmaceutical Council during the past eighteen months, with special reference to the Council's attitude on the administration of the Poisons and Pharmacy Act, 1908, and the "pharmacy" question. The address shed new light on these points to the members present, and was a vigorous defence of the policy of the Council, the members of which, Mr. Gilmour said, are more alive to the interests of chemists than they occasionally get credit for. The work of the various committees was touched on, and the Registrar's recent report quoted as showing the vigilance of the Law Committee. Support for the Benevolent Fund was strongly advocated. The educational policy of the Council was touched on, as also Parliamentary representation, and Mr. Gilmour closed by appealing for the loyalty and support of the members. An interesting discussion followed, and, on the motion of Mr. McCorquodale Mackinch, seconded by Mr. Bissett Burntisland, a cordial vote of thanks was accorded Mr. Gilmour, a similar vote being given to the Chairman, on the motion of Mr. Gilmour.

Chemists' Assistants' Association.—A lantern-lecture on "The Cause and Nature of Colour," by Mr. C. H. Warner, was the event of the evening at the meeting held at 73 Newman Street, London, W., on March 10. Mr. F. L. K. Loxley (President) occupied the chair. The lecturer first dealt with the ancient conceptions of light, fully explaining Newton's corpuscular theory. According to this hypothesis light is due to minute particles shot out of the body, the different colours resulting from the variation in size of the corpuscles. The modern undulatory theory was treated in detail. On the present view light is due to vibrations of certain wave-lengths set up in the imponderable ether which affect the nerves of the retina. It was stated that the ether, electricity, and matter are now regarded as identical. The demonstrations included decomposition of white light, the cause of the colour of materials and pigments (due to the complementary colour to that which they exhibit being absorbed), the absorption of colour by solutions, and the creation of artificial fog by precipitated sulphur from a solution of sodium thiosulphate in order to explain the colour of the sky at sunset and sunrise. Some beautiful coloured slides, taken by the Sanger-Shepherd process, illustrative of sunsets were thrown on the screen. Fluorescence and the interference of light were also explained, two striking photographs illustrating wave-interference of mercury being shown. A hearty vote of thanks was accorded the lecturer.

Association of Certificated Dispensers.—The annual meeting was held in the Court-room of the Apothecaries' Hall, Blackfriars, London, E.C., on March 10, Mr. Montagu Smith (Lewisham Infirmary) presiding. There was a good attendance of members. The minutes of the last annual meeting having been read and confirmed, the Treasurer, Mr. A. Z. Anderson (Whitechapel Infirmary), presented the balance-sheet, which showed a balance of 567. 9s. 6d. to the credit of the Association. The Hon. Secretary, Mr. A. Howell (Dalston Dispensary, N.E.), submitted his annual report, in which he noted the continual growth in the membership, the Association being about 350 strong. A close watch is being kept upon all movements likely to affect the members. The meeting in November last was recalled, at which a resolution was passed urging the Society of Apothecaries to use its influence with the Pharmaceutical Society in reference to the making and passing of by-laws for the registration of assistants under the powers conferred by Section 4 of the Poisons and Pharmacy Bill, 1908. Negotiations on this matter are still proceeding. The register kept by the Hon. Secretary has been the means of securing employment for many members. The committee for 1910 was then appointed, which, with two exceptions, is the same as last year. Mr. Howell then addressed the members, and formulated a policy for the guidance of the members in any legal or professional circumstances that may arise during the ensuing year. Votes of thanks to the Master and Wardens, Chairman and officers of the Association were carried, and the proceedings terminated.

Royal Society.—At the meeting held at Burlington House, W., on March 10, Dr. A. D. Waller read a paper on the "Action of Nicotine and other Pyridine Bases upon Muscle; and the Antagonism of Nicotine by Curare," by Dr. V. H. Velej and himself. From this it appears that the characteristic effect produced by nicotine on the contraction of isolated muscle is much greater than the action of curarine, but the latter has great power of antagonising the action of nicotine. With a solution of pure curarine iodide the characteristic effect of nicotine on muscle was abolished when the proportion of curarine to nicotine, reckoned by molecules, was 2 to 1, 30 to 1, and 160 to 1. With the last proportion a trace of the nicotine effect could still be detected. Professor H. E. Armstrong read a paper

on "Enzymes of the Emulsin Group." There is reason to suppose, he said, that a number of enzymes exist of the same type as almond emulsin. The enzymes appear often to act preferentially on one or another of a series of correlated glucosides, and he drew attention to the evidence of the structure of the enzymes afforded by their behaviour towards various glucosides. He also gave a demonstration of the remarkable rapidity with which the enzymes or ferments act as hydrolytic agents in breaking down substances such as the sugars, by inducing the fixation of the elements of water. According to recent observations by Takeuchi, the soya bean is peculiar in containing urease, the enzyme by which urea is converted into ammonium carbonate. Using the ground-up seeds and a colourless indicator which became red in presence of ammonia, Professor Armstrong was able to show that a considerable amount of change took place in a solution of urea in the course of a very few minutes.

Society of Chemical Industry.—The sixth Hurter Memorial Lecture, founded by the Liverpool Section of the Society, was delivered at the Liverpool University on Wednesday, March 9, by Dr. Chas. A. Keane, principal of the Sir John Cass Technical Institute, London, the subject being "Modern Iatro-Chemistry: Some Services of Chemistry to Pharmaco-Therapeutics." He showed how the developments of chemical physiology and pharmacology in association with modern organic and physical chemistry have resulted in gains to industry in the manufacture of synthetic drugs. Since the discovery of antipyrin in 1883, its manufacture has grown to considerable magnitude, but almost entirely in the colour-works of Germany and Switzerland, where the initial materials and well-staffed laboratories have given the best conditions for its development. Practically no synthetic drugs are made in this country. Approximately 20½ tons of seven of them are imported into this country annually, the value being over 16,000£. Dr. Keane said that three factors have interfered with the development of the industry here, as well as of the manufacture of aniline colours: (1) Non-provision of duty-free alcohol for industrial purposes; (2) defects in our patent laws; and (3) defective instruction of students intended for our chemical-industries. Along with these is a want of appreciation by manufacturers of the value of chemical science. He referred to what has been done to remedy the first two factors, and deprecated the too conservative attention of British manufacturers to the merely staple products, declaring also that it is high time the unrestricted and harmful use of synthetic drugs in patent medicines and without medical advice should receive official inquiry. With regard to the industrial side of the question, he thought that after all the character of the students, and not mere discussion, would teach manufacturers that scientifically trained chemists are worth having, and that reforms should now be preached less and practised more.

Western Chemists' Association.—A meeting was held at the Restaurant Frascati, on March 16, Mr. J. T. Barrett (President) in the chair. About sixty members were present. The Preston Association's letter was referred to a committee, then Professor W. E. Dixon, M.D., spoke on "Modern Views and Ancient Tradition in the Treatment by Drugs." In the course of his introductory remarks, he said that life consists of dead material undergoing a series of analytic and synthetic fermentations. If drugs do not act on living matter they must act on dead material, a much simpler question to consider. Sugars in the body undergo a series of decomposition changes, in which lactic acid, alcohol, and other intermediate compounds are formed before the end product, carbon dioxide, is produced. An experiment was described which showed that alcohol is one of the metabolic products of fresh muscle. The lecturer does not believe in the attempts made to correlate chemical constitution with physical action, and illustrated this by saying that an effective hypnotic can be picked haphazard from the laboratory shelves, since it only needs to be very soluble in fat and almost insoluble in water to prove a good sleep-producer. The physiological action of calcium is due to its modification of ferment-production. Caffeine stimulates muscle action by facilitating ferment formation. Ehrlich's side-chain theory was explained, and it was said that it cannot be applied to drugs; tetanus serum and strychnine were in this connection contrasted. Several physiological experiments with drugs were mentioned, then some on immunity. He next referred to the uric-acid fallacy, told the meeting that hypophosphites pass through the body unchanged, and discussed the inutilty of topical applications of belladonna and the like, which were described as "so much nonsense." The lecture concluded with an explanation of the two ways one may die: (1) by paralysis of the brain, or (2) by the circulatory system giving out, the latter cause being responsible for 99 per cent. of deaths. In the subsequent discussion Messrs. E. White, Crossley-Holland, C. B. Allen, T. W. Cleave, H. R. Proctor, and the Chairman took part. Professor Dixon briefly replied.

Portsmouth Pharmacists' Association.

A MEETING was held at the Pembroke Rooms on Wednesday afternoon, March 16, Mr. T. A. White (President) in the chair. The company included Mr. W. A. Bell (Vice-President), Mr. T. O. Barlow (Secretary), Mrs. W. H. Bown, Miss E. Hooper, Mrs. F. Gall, and about a dozen members.

"The Flora of the District" was the subject of a paper by Mr. F. Gall, who first of all made out a good case for pharmacists taking a lively interest in the plants and flowers growing so near at hand. He gave a list of flowers and their particular localities, and showed a collection of over eighty specimens, which were much admired. The table was strewn with fresh flowering tops. Mr. Gall stated that the yew tree in Widley churchyard has a diameter of 24 feet. The peculiarity of the Purple Goat's Beard, which closes up at noon, came in for remark, as well as the appearance of isolated specimens in newly disturbed ground such as the fortifications. This latter, in Mr. Gall's opinion was due to seed lying dormant, in some cases for many years. In conclusion he offered to assist apprentices or others in his favourite hobby, by identifying any flowers found growing in the neighbourhood. On the motion of the President, seconded by Mr. Cruse, the thanks of the meeting were accorded Mr. Gall. With reference to the Preston Association's letter *re* the sale of spirituous preparations by unqualified retailers, the meeting unanimously considered it the wisest course to let the Customs and Excise manage its own business.

Edinburgh Chemists', Assistants', and Apprentices Association.

A MEETING of this Association was held at 36 York Place, Edinburgh, on March 9, Mr. E. J. Brown, Ph.C. (President), in the chair. The first communication was on

SOAP-MAKING,

by Mr. George Orr, in which the author gave an interesting description of the materials used in making the various kinds of soap and the processes by which they are produced. He showed specimens of crude glycerin, dynamite glycerin, and B.P. glycerin, also soft soap and various toilet soaps.

The next communication was on

PULQUE,

by Mr. Donald McEwan. Pulque is the fermented sap of the *Agave americana* and also to a less extent the *A. mexicana* (N.O. *Amaryllidaceae*). The plants grow wild and are also cultivated all over Mexico. The *Agave americana* is almost stemless; its tuft of massive leaves is seated close to the ground and spreads out so as to occupy a considerable space. The leaves are very thick and fleshy, from 3 ft. to 6 ft. long, and are furnished with hard spines both along the margins and at the apices. The plant takes a long time to arrive at maturity; in Mexico cultivated specimens take from five to ten years. The cultivation of the plant in Mexico is carried out on a very considerable scale. In Puebla State thirty plantations are devoted exclusively to its cultivation. When the flowering stem is ready to burst forth it is cut out, and into the cavity thus formed the sap, which otherwise would have gone to develop and nourish the flowering stem and flowers, begins to flow. It is produced at the rate of from one to two gallons per day for several months; sixty to ninety gallons per plant is the average yield. As thus collected, the sap is at first clear green, yellowish, or whitish, and is known as "agua miel" or "honey water." It is left exposed to the air in open vessels for six to eight hours in the shade. As the sap is strongly mucilaginous and saccharine it rapidly ferments, and it is this fermented liquor which is known as pulque. The fresh sap is stated to be laxative and diuretic. Pulque contains about 7 per cent. of alcohol along with albuminoid matters and phosphates, principally of potassium, magnesium, and lime, as well as the earthy salts generally found in plant juices. It is claimed for it that it not only stimulates renal activity, but that it is powerfully nutritive, being, in fact, a true food, and that it unites with the gastric juice and gives good digestion in consequence of its use. It has been used with great success in Bright's disease. The fermented juice is usually transported in raw-hide bottles, and it is the animal matter ab-

sorbed from these which gives to pulque its rather peculiar odour and taste. The commerce of it is in Mexico very extensive, the value being about \$2.75, or 10s. or 11s. per barrel. The consumption is so great that in Mexico City, with a population of about 500,000 inhabitants, it averages 1,000,000 quarts per day.

The third communication was on

OPIMUM.

by Mr. J. Tait, Ph.C. The author gave an historical account of opium, including its cultivation, collection, varieties, uses, and active principles. The communication was illustrated by a series of specimens from the museum of the Pharmaceutical Society, and Messrs. T. & H. Smith, Ltd., also sent an interesting exhibition of commercial opiums, including Turkey opium of the varieties known as Salonica, Tokat, Malatia, Karahissar, Angora, and Youghourma, and Persian opium wrapped in red paper in brick form and cones and carrot-shaped packets, also Indian opium in the form of balls, and the so-called China opium as prepared in India for the Chinese market wrapped in metallic foil and in green paper; also several specimens of Australian opium.

Votes of thanks were given to the authors of the papers.

North Staffs Chemists' Association.

A MEETING of this Association was held at the Roebuck Hotel, Stoke-on-Trent, on March 10. Mr. Weston Poole, of Newcastle-under-Lyme, President, occupied the chair, and there was a large attendance, which included: Mr. T. C. Cornwell (Hanley) and Mr. E. Mellor (Uttoxeter), Vice-Presidents; Messrs. T. Bentley (Stoke), Hon. Secretary, H. Blades (Leek), E. Corner (Hanley), Cope (Leek), Challinor (Fenton), E. Griffiths (Kids Grove), Edge (Wolstanton), Kemp (Fenton), Stockwin (Messrs. Bleasdale, York), Oliver (Shrewsbury), Wood (Hanley), and Tipper (Stoke). After correspondence from the Preston Association regarding the sale of spirituous preparations by unqualified and unlicensed persons, Mr. E. Griffiths read a paper on

OINTMENTS.

After mentioning that the bases come from the three Kingdoms, Mr. Griffiths enumerated the various bases used for making ointments: ung. paraffin; soft paraffin; adeps; adeps benz.; adeps lanæ, and cera flava. Medicaments prescribed in ointments are intended to be: (1) antiseptic, (2) absorbed, (3) astringent, and (4) germicides or parasiticides. When an ointment comes within 1, 3, and 4 ung. paraffin or soft paraffin is the base used. When under 2, adeps and adeps benz. are employed. Ung. paraffin contains, for most classes of ointments, 5 per cent. to 10 per cent. too much hard paraffin, especially for winter use. Again the various soft paraffins sold under trade names, although they come up to B.P. standards of m.p. and sp. gr., are of a different consistence than the original Vaseline, so that ung. paraffin prepared by different firms varies considerably in consistency and viscosity. Beeswax is used as the base in one ointment only, and in this is unsatisfactory, because too much wax is used and the resultant ointment is too hard. With an adjustment of quantities of hard paraffin in several ointments the bases are satisfactory.

The methods of preparation of all the B.P. ointments are simple, and can be performed in any pharmacy with the simplest every-day apparatus. Levigating, milling, etc., are processes employed by wholesale druggists, but the products are never superior to home-manufactured articles. Proceeding to deal with methods of dispensing, Mr. Griffiths criticised the old-fashioned and inconvenient ointment-pots, and said that what chemists require is a neat and attractive non-combustible container of the thickness and tenacity of xylonite or celluloid, suitably coloured. Mr. Griffiths then criticised the B.P. ointments, mentioning that ung. zinci, being intended for a local antiseptic, ought to be made with a paraffin base, and that ung. sulph. might with advantage be made with sulphur precip.; that ung. aq. rosæ requires the omission of 33 per cent. of the wax and spermaceti, using adeps and lanoline instead, and that the aq. rosæ must be added warm.

In the course of subsequent discussion, Mr. Mellor said he wished the B.P. authorities would introduce a boric

ointment made with soft paraffin, as he himself had made a great deal of that preparation when he was in the West-end of London. With regard to the difficulty of making ung. boric, he found the best way is to make it in a jar and stir with a knife.

Mr. Corner referred to Cripps's method of making ung. zinci, which he had found successful, and also asked Mr. Griffiths what is the reason for the hardening which occurs in zinc ointment when it has been kept a while.

The President said he had found that the B.P. boric ointment is improved by varying the proportions of hard and soft paraffins prescribed. He had found that local surgeons prefer a boric ointment made with soft paraffin as suggested by Mr. Mellor. He described his own method of making ung. boric, and said that his experience of buying preparations up and down the country was not very happy. He had made a good deal of ung. zinci with a petroleum base, and many doctors seemed to prefer this. He had noticed the hardening of zinc ointment. He recommended the method of sifting the powdered zinc oxide into the melted lard. He had had complaints about chrysarobin ointment on account of the gritty nature of the finished product. Sulphur ointment he had made with sulphur precip., and had coloured it with cochineal. In making ung. gallæ the lard should not be melted, or the product will certainly be lumpy. In the case of salicylic ointment, he recommended that the base be melted and the salicylic acid dissolved by means of heat.

Mr. Blades said he had been successful with Cripps's method for making zinc ointment. In making ung. aq. rosæ he found that if the rose-water were sterilised by heat and added warm the preparation is whiter and keeps better.

Replying to the discussion, Mr. Griffiths recommended a 10 per cent. soft boric ointment. Chrysarobin is never entirely soluble. The ointment should, he said, be strained and allowed to cool without stirring. The hardness resulting in zinc ointment is due to the combination of the zinc ointment with the benzoic acid of the benzoated lard. Without the benzoic the ointment keeps well, and does not become hard. He had made for hospital use a boric ointment consisting of equal parts of castor oil and boric ointment. A vote of thanks having been given to Mr. Griffiths, Mr. E. Corner read a paper on

ADVERTISING DISPLAY.

This he illustrated in a very effective fashion by examples of advertisements from the trade papers in which the wholesale firms advertise and from the local papers in which the retail chemists are themselves wont to extol their wares. He showed the superiority of a displayed trade advertisement over one which is not "displayed." Displayed advertisements being printed in heavy, distinctive, or ornamental type, with or without borders and illustrations, make the matter more attractive and immediately catch the eye of the reader. Non-displayed matter is suitable for those advertisements for which people are accustomed to look regularly—small wants, contracts, situations, Government and official announcements; but when a person in active competition in trade has something to sell, and is anxious that the public should know that he can sell it better and cheaper than anybody else, it is desirable that he should display his advertisement as attractively as possible. Referring to advertisements in handbills, he touched upon the question of different coloured inks as aids to effective display; and, in referring to the subject of borders in newspaper advertisements, said they needed using with discretion, but are useful in separating neighbouring advertisements. Breaking the border is an effective means of displaying a particular word or line. Mr. Corner then produced examples of various different founts of type, and showed which founts are desirable to the achievement of different effects in display. He next gave some practical hints respecting advertising in country papers where only a limited supply of types and borders is kept. The best thing to be done is to go through the country paper first and see what type they have and what kind of display they are able to make with it. Then it becomes a case of arranging the type and display most suitable under those particular circumstances.

In the discussion that followed, Mr. Tipper declared that it is no use chemists advertising in parish magazines;

but Mr. Griffiths and Mr. Poole stated that they have found such magazines to be valuable advertising media.—A vote of thanks was passed to Mr. Corner.

OTHER BUSINESS.

The President said he had received an intimation from the Wolverhampton Chemists' Association suggesting that Hawkstone Park would be a suitable place for a joint picnic, as it is equally convenient for both Associations. This suggestion of Hawkstone Park was favourably considered and referred to a committee.

The President read a letter from Mr. Edmund Jones, of Hanley, Secretary to the Federation of Local Pharmaceutical Associations, referring to the proposed amalgamation of the Federation with the British Pharmaceutical Conference, and after some discussion it was decided to pay the Federation subscription as usual.

Festivities.

Social Meeting.

A successful social meeting of the Glasgow Chemists' Association was held in the Regent Tea-rooms, on March 10, when there was a large attendance. An excellent musical programme was submitted, to which Miss Geddes, Miss May Currie, Miss Fellowes, M. Dickson, and M. Gracie contributed songs, Miss K. Fellowes a violin solo, and Mr. Peter Irvine a reading. Dancing was afterwards engaged in. Mr. J. W. Sutherland (President) was unable through indisposition to be present. During an interval Mr. J. P. Gilmour made an appeal on behalf of the Pharmaceutical Benevolent Fund, and a considerable sum was collected.

Dinners.

The annual dinner of the Great Yarmouth Pharmaceutical Association was given at Hill's Restaurant, Great Yarmouth, on Thursday, March 10, Mr. J. S. Shearman (President) in the chair. Messrs. T. B. Male, H. Palmer, P. R. Hill, W. G. Poll, H. E. Goddard, T. J. Woodcock, C. H. Kellan, A. R. Davies, and A. E. Richmond were also present. After the dinner the company adjourned to the Association's rooms, where the President gave a sample of his splendid gramophone records, and the evening finished with cards and social intercourse.

The annual dinner of the London College of Pharmacy Football Club was held at the Holborn Restaurant, London, W.C., on March 16, when about a hundred students gathered to celebrate the capture by the club for the year of the Inter-Pharmacy Football League Cup. Mr. C. H. F. Woollons occupied the chair and was supported by the Principals, Mr. H. Wootton, B.Sc., and Mr. A. Kirkland, Ph.C. In the course of the evening the Chairman presented the League medals to the team and handed the cup over to the captain, Mr. J. R. Rees. The toast of the "Principals," given by the Chairman, was received with great enthusiasm, and was accorded musical honours. Both the Principals replied. A programme of music was gone through in which humorous items bulked largely.

The fourteenth annual dinner of the Grimsby and District Pharmacists' Association was given in the Oberon Hotel, Grimsby, on Thursday evening, March 10, when thirty-four gentlemen sat down. Mr. Cor. Willson presided, and among those present were the Mayor (Councillor R. W. Roberts), Dr. George A. Grierson, Councillor F. Forbes, Messrs. J. W. Hall (Peterborough), W. H. Walton (Hull), W. Stewart Adamson (Messrs. Parke, Davis & Co.), Granville Shaw (Messrs. J. Woolley, Sons & Co.), and the office-bearers and principal members of the Association. After the King's health was drunk, Mr. T. W. Ellis submitted the toast of "The Pharmaceutical Society," which Mr. Colley acknowledged, while "The Medical Profession" was given by Mr. Dewing, who associated it with the name of an erstwhile pharmacist, Dr. Grierson, who made a witty response. The toast of the Association itself was proposed by Mr. Hall, who congratulated the members on their President, whom he had known for many years as a genial companion and a good-hearted friend. Mr. Heeley, the

retiring Secretary, in replying, said he was to be succeeded by Mr. Ashton as secretary, and he was quite sure that if anyone trod on his corns there would be an explosion. (Laughter.) The toast of "The Mayor and Corporation" was proposed by the President, and acknowledged by his Worship, after which "The Health of the Visitors" was



MR. C. H. ASHTON.



MR. H. COLLEY.

drunk on the proposal of Mr. C. H. Ashton, and Mr. Adamson spoke for these guests. During the evening songs were given by Messrs. R. E. Popple, C. H. Ashton, Foster, Shaw, Adamson, Scoffin, and Mr. E. J. Keightley and Mr. Granville Shaw recited. Mr. Keightley also acted as accompanist.

Institute of Ophthalmic Opticians.

The first annual dinner of the members of the Institute of Ophthalmic Opticians took place at Frascati's Restaurant, Oxford Street, London, W., on March 10. Mr. George Bennett (Stockport), the Chairman of the Institute, presided, the other chemists present being Mr. H. M. Black (Brighton), Mr. J. C. Kidd (Manchester), Mr. A. Upson, J.P. (Maidenhead), Mr. F. Challis (Southall), Mr. L. Bayley (Hornsey), Mr. J. H. Cuff (New Southgate) (Hon. Secretary), Mr. H. Fairburn (Northallerton, President of the Society of Chemist-Opticians), and Mr. S. W. Woolley (Highgate). The company, which included several ladies, numbered about fifty. After dinner, the loyal toasts were taken, and then Mr. S. D. Chalmers (President of the Optical Society) proposed the toast of "The Institute." In the course of his speech, Mr. Chalmers referred in appreciative terms to the steps taken by the Institute to raise the status of opticians. He advocated the one-portal system of entering the ranks of opticians. The Chairman, in reply, took as his motto, "Without unity there is no peace," and made the following interesting pronouncement regarding optical politics:

There have been recurring periods of agitation, debate, and quiescence, and there now appear to be signs of renewed life. The desire is again being expressed that steps be taken to fuse optical forces with a view to ultimate Parliamentary action. What may be done on these lines remains to be seen, but the Institute as a body desire to keep well in mind the fact that the case of the sight-testing optician, who holds the diploma of the Spectacle Makers' Company, is not at all a bad one. Whether we shall ever be able to gain Parliamentary recognition or not the future will reveal; but it is an established fact that we have our charter held by the S.M.C., which gives the Court of that Company great powers, and imposes upon it at the same time great responsibilities. It holds the balance between the rights of the public and those of the craft. No other optical body is in this high position, and opticians all over the country ought on that account to rally to the S.M.C. and live up to the privileges we enjoy under this charter—privileges which are being confirmed and safeguarded by usage. If the craft only acts wisely we shall be able to retain them for all time in spite of opposition. The position of the holder of the S.M.C. diploma

is therefore unique; on the one hand, he is a member of an ancient Guild which received its charter from the Crown nearly 300 years ago, and which has so far adapted itself to modern times that its influence to-day is probably greater than it ever was. On the other hand, he has the right of membership of this Institute, an organisation founded on the most democratic lines of Government, and which, working in thorough harmony with the parent organisation, can help in achieving for our craft a great deal that would otherwise be impossible. The most loyal supporters of the Guild have to own that there is not the understanding between the Guild and the rank-and-file of the trade that could be wished. It is not offering any disrespect to the members of the Court to say that they cannot be expected to know the detailed needs of the trade. If they see their way to appoint the Trade Council asked for, this discrepancy would be repaired and many adherents made from these who are at present standing aloof. Such a Council would have ample work to do in handling purely trade matters, the judicial, legal, and administrative functions remaining as at present entirely in the hands of the Court.

Other toasts were "Kindred Associations," proposed by Mr. A. Upson, and replied to by Mr. J. C. Kidd; "The Ladies," proposed by Mr. H. Coleman (Treasurer), and replied to by Mr. F. Challis. Mr. F. W. Bateman gave that of "The Visitors," to which Mr. H. Fairburn replied. The toast of "The Chairman" was proposed by Mr. G. Bateman, and this was followed by that of "The health of Mr. Cuff." A high-class musical programme occupied the intervals between the speeches.

Whist-parties.

There was a disappointing attendance at the annual whist-drive of the North-East Lancashire Association, held in Sudall's Café, Blackburn, on the evening of March 10. Forty persons were present, and the duties of M.C. were discharged by Alderman R. Shorrocks, J.P. (President), and Mr. John Rennie (Secretary). At the close the prizes were distributed to the winners by the President, and the proceedings, which proved very enjoyable, concluded at 12 P.M. The winners were: Ladies—1st (ladies' morocco bag), Mrs. A. H. Garland; 2nd (pair of silver-mounted vases), Miss Shorrocks, of Darwen. Gentlemen—1st (silver sovereign purse), Mr. W. H. Lomax; 2nd (gold pin), Mr. Johnson.

"Get a bloomin' chemist wound up, and he'll go for twenty-four hours." Thus remarked a burly Yorkshire policeman in the early hours of Saturday morning last, to the line of patiently waiting coachmen and chauffeurs outside the Café Imperial, Harrogate. A whist-party of the Harrogate Pharmaceutical Association was inside, and as this was the annual ladies' evening the company did not feel the hours to linger. Mr. H. G. Mitchell (President) and Mrs. Mitchell received the members and friends, numbering seventy, at eight o'clock. The whist-room had seventeen tables, and twenty-eight rounds were played, the prize results being as follows:

Ladies.—1 (a pair of handsome silver-mounted cut-glass flower-vases), Mrs. Tinker; 2 (leather hand-bag), Mrs. Hamilton; 3 (brass bridge-marker), Miss Lodge.

Gentlemen.—1 (silver-mounted walking-stick), Mr. R. Kirby; 2 (leather letter-case), Dr. Jones; 3 (silver match-box), Mr. Howard Jones.

The President gave two special prizes, and these were awarded by the sealed-number method, and fell to Mr. Geo. Weston and Mrs. Packer.

Mrs. Mitchell presented the prizes, and immediately afterwards Mr. C. E. J. Eynon requested Mr. Weston, in the name of the committee, to present their Lady President with a bouquet of beautiful flowers. Mr. Weston in so doing remarked that the Association had always been particularly fortunate in their lady presidents, who had ever been ready and willing to assist the presidents in carrying out their social and business duties, but they had never had a more charming, graceful, and willing lady than they had in Mrs. Mitchell. The President having acknowledged the compliment, the company proceeded to the ball-room, and were still dancing at the approach of 3 A.M., when "Robert" made the above remark. Mr. C. B. Southwell (Secretary) was "bell-man" at the whist-drive, Mrs. Barkworth, Messrs. Lambert Foster, Sol Taylor, and others contributed musical items (Mr. Weston directing), and the President acted as M.C. of the dancing.

Java Cinchona.

SINCE the publication of the Bandong Quinine Factory's reply to the Preanger Cinchona Syndicate's circular (*C. & D.*, January 8, p. 49) there has been a lull in the Java cinchona controversy, and very little has transpired as to the further action taken on either side. Dr. A. W. Nanninga, of Amsterdam, contributes to the "Indische Mercur" of February 22 a long letter on the subject, chiefly historical, but containing a few interesting comments on the technical management of the Bandong Factory. He asserts that whilst European quinine-makers have greatly improved their methods of extraction in recent years, the Bandong Factory still adheres to the use of petroleum as a solvent, and consequently their working-expenses are exceedingly high. According to one authority they amount to 5 florins per kilo of quinine as compared with 2 marks per kilo in Germany. Dr. Nanninga suggests as a remedy the erection of a new factory by the planters, who should engage a competent technical chemist to manage it. The next issue of the same journal contains a formal reply by the Preanger Cinchona Syndicate to the Factory's circular (see *C. & D.*, January 15, p. 93). In this it is merely pointed out that further public polemics will do nobody any good, and for that reason it is proposed to discontinue the discussion. A little further light on the subject was obtained at a meeting of the Syndicate, held in Java on February 7, and duly reported in "Java-Bode." It appears that Heer Meijer, the Treasurer of the Syndicate, has resigned, as he does not agree with his colleagues in the action taken against the Factory; and as he is also interested in the latter he desires to have a free hand in the controversy. Questions were asked at the meeting as to any further developments which had taken place in the direction of limiting the output of bark. Several members stated in this connection that a proposal was being discussed with the Factory for a ten years' contract under which planters would share in the profits after a 10 per cent. dividend had been paid to the shareholders, but the President's "official" answer to the inquirers was that the Syndicate adhered to the original plan of limitation, and that planters were now in a far better position to enforce it, since by the new quinine-extraction process (see *C. & D.*, January 29, p. 147) they could all make quinine for themselves.

Recent Wills.

MR. JAMES BOORNE, Cheltenham and Reading, tin-box manufacturer, left estate valued at 50,651*l.* gross, with 43,704*l.* net personality.

MR. HENRY EDMUND LEE-SMITH, 10 Zetland Road, Loftus, Yorks, chemist and druggist, who died December 17, left estate valued at 195*l.* 2*s.* 9*d.*

MR. JOHN HILLABY, J.P., Tanshelf, Pontefract, Yorks, liquorice-manufacturer, who died on November 7, left estate valued at 4,169*l.* 12*s.* 1*d.* gross, with net personality 1,086*l.* 3*s.* 11*d.*

MR. EDWARD HILL, Woolhampton, and Northbrook Street, Newbury, Berks, chemist and druggist, who died on November 8, left estate valued at 4,900*l.* 4*s.* 3*d.* gross, of which 4,824*l.* 6*s.* 11*d.* is net personality.

MR. JOHN CAMPBELL FELL, F.C.S., Lansdowne Cottage, Melville Street, Ryde, I.W., formerly analyst with Camwal, Ltd., who died on January 16 last, left estate valued at 1,997*l.* 11*s.* gross, with net personality 1,565*l.* 13*s.* 9*d.*

MR. CHARLES NOEL LAYMAN, Thornton House, Bickley, Kent, chemist and druggist, and director of Messrs. Wright, Layman & Umney, Ltd., who died on February 19, left estate of the gross value of 30,700*l.* 14*s.* 8*d.*, of which the net personality has been sworn at 30,617*l.* 9*s.* 1*d.* Probate of his will has been granted to his wife, Mrs. Charlotte Layman, and his sons, Mr. Ernest Blakesly Layman and Mr. Fredk. Noel Layman. The testator left his household and personal effects to his wife absolutely, and he left an annuity during the life of his wife of 100*l.* to each of his daughters Maud Charlotte Simpson and Florence Mary Layman, and the residue of his property to his wife for life, with remainder equally between his children Sidney George Layman, Percy Augustus Layman, Florence Mary Layman, and Maud Charlotte Simpson and their respective issue, the shares of his daughters being retained upon the usual trusts for their benefit.

Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

42 Cannon Street, London, E.C., March 17.

ALACK of animation continues in the chemical and drug markets, the week having revealed few outstanding features. Ipecacuanha continues of interest mostly on speculative account, and higher prices have been paid. Norwegian cod-liver oil is dearer, but neither sellers nor buyers seem anxious to operate. Good Curaçao liver aloes remain scarce and dear. Buchu is neglected, although higher prices are cabled from the Cape. Refined camphor in slabs has been sold at lower rates, but tablets, including English, are steady. The monthly cinchona auction attracted little attention, the unit being unchanged. Castor oil is firmer, and peppermint oil remains easy. Turmeric is scarce and dear. Among chemicals, copper sulphate is cheaper. Refined glycerin is unaltered; nitrate of soda and cream of tartar are higher, while foreign citric acid is fractionally better. The changes have been as under:

Higher	Firmer	Easier
Ammonia sulphate	Benzols	Camphor (Jap. slabs)
Cod-liver oil	Castor oil	Canary seed
Cream of tartar	Citric acid (foreign)	Copper sulphate
Ipecacuanha	Nutmegs	
Mace (W.I.)		
Soda nitrate		

* * The Drug-sales next week will be held on Wednesday, samples being placed on show on Tuesday.

Cablegrams.

SMYRNA, March 17.—The opium market is firm at from 13s. to 14s. 6d. per lb.; demand is fairly active.

BERGEN, March 16.—The cod-fishing at East Lofoten continues small, but West Lofoten show an improvement. The market for finest Lofoten non-freezing oil is firmer at 93s. 6d. per barrel c.i.f. terms.

NEW YORK, March 17.—Business in drugs is moderate. Opium is dull of sale at \$5.45 per lb. Cascara sagrada is firmer at 7½c. Jalap is weak at 18c. Cartagena ipecacuanha is scarce and rising at \$1.50, and the market is bare of Rio. Peppermint oil is quiet at \$2. Senega is easy at 58c. Hydrastis (golden seal) is steady at \$2. Oil of birch is firmer at \$1.50, and Curaçao aloes is firm at 8c. per lb.

London Markets.

ACID, CITRIC.—Quiet, with both English and foreign offering at 1s. 4d. per lb.

ACID, TARTARIC, is steady at 10d. per lb. for English, and 9½d. for foreign.

ALOE.—It is stated that sales of Curaçao have been made in New York at the equivalent of 40s. 6d., indicating a very firm market, while on the spot good liver continues scarce. Other qualities have been in fair demand, including capey up to 35s. The exports from Cape Colony during 1909 amounted to 697,176 lb., valued at 6,512l., against 358,799 lb., valued at 7,941l., in 1908. The arrivals include three cases loose Zanzibar in leaves of good quality; also ten cases from the Cape.

ANISEED is firm at 24s. to 25s. per cwt. for common to good Russian, and 38s. 6d. for Spanish.

ARROWROOT.—At auction 50 barrels manufacturing St. Vincent were bought in at 2d. per lb.

ASAETIDA.—Practically all the better qualities have now been cleared off the market, up to 8l. 5s. per cwt. having been paid.

BENZOLIN.—A lot of about 20 cases Palembang of fair quality has arrived, and also 50 cases Sumatra.

BENZOLS are slightly dearer at from 8½d. to 8¾d. for 50-per-cent. for prompt delivery, and 7¾d. to 8d. for 90-per-cent.

BUCHU.—The exports from Cape Colony during 1909 amounted to 260,126 lb., valued at 9,666l., against 243,472 lb., valued at 7,284l., in 1908. These are the official figures from the annual report compiled by the South African Customs Statistical Bureau.

CALABAR BEANS.—A recent arrival of 41 bags in Liverpool has been sold at a private price.

CANARY-SEED is very dull of sale, and in order to sell lower prices would have to be taken. Quotations are therefore nominal at about 42s. to 44s. per quarter for ordinary qualities, and 46s. to 48s. for good ordinary.

CAMPHOR (CRUDE).—China is firmly held at 139s. to 140s. spot, and for arrival 136s. c.i.f. is quoted.

CAMPHOR (REFINED).—Sales of Japanese 1-oz. tablets have been made at 1s. 7d. per lb. c.i.f., and for slabs 1s. 5¾d. c.i.f. is quoted. The spot values are 1s. 7d. for 1-oz., 1s. 7½d. for ½-oz., and 1s. 6½d. for slabs; but sales of the latter have been made at 1s. 6d.

CARAWAY-SEED is firm at 30s. to 31s. per cwt. on the spot for fair to good Dutch.

CHILLIES.—Firm. At auction 200 bales fair Mombosa were bought in at 50s.

CINCHONA.—Further particulars show that the 9,773 packages to be offered at Amsterdam on Wednesday, March 23, weigh 861,051 kilos., and contain the equivalent of about 49,706 kilos. quinine sulphate. The manufacturing-bark comprised in the above weighs 773,269 kilos., and the pharmaceutical bark 87,782 kilos., containing respectively 46,813 kilos. and 2,893 kilos. quinine sulphate. The average quinine-content of manufacturing-bark is 6.05 per cent., as compared with 6.19 per cent. in February, 6.29 in January, and 6.54 in December. At the London auction on Tuesday 511 packages were offered, of which 402 packages sold at the average unit of ¾d. per lb., being unchanged.

The following table shows the quantity offered and sold:

	Packages offered.	Packages sold
Java cinchona	388	286
East Indian cinchona	100	100
Ceylon cinchona	23	16
	511	402

The prices paid were:—**EAST INDIAN:** Ledgeriana, stem 3¾d., branch, 2¾d.; Succirubra, natural stem chips and shavings 2¾d., mixed stem and branch 1¾d., and root 1½d. per lb. **CEYLON:** Succirubra, root 1¾d. **JAVA:** Ledgeriana, stem chips 3¾d. to 4¾d., branch ditto 2d. to 4d., and root 3½d. to 3¾d.; Succirubra, stem chips 1¾d.; hybrid ditto, 1¾d. to 2¾d., and branch 1½d. per lb.

CINNAMON.—At auction 464 packages Ceylon were offered and 100 sold—the remainder being bought in at 6d. to 7½d. for pieces, and 5½d. for quillings and featherings; 245 bags cinnamon chips were also bought in at from 3d. to 3½d. for fair to good, and 2¾d. for dusty.

CLOVES.—At auction 200 bales Zanzibar were offered and 100 sold without reserve at 5¾d. for fair and at 5¾d. for good bright. Privately business has been insignificant, Zanzibar being quoted at 5½d. for June-August delivery, and at 5½d. for August-October, sellers for February-April shipment offering at 5¾d., and March-May at 5½d.

c.i.f. d/w. Spot sales of fair have been made at 5½d. per lb.

COCA-LEAVES.—The 345 packages Java coca-leaves to be offered at Amsterdam on March 23 weigh 18,911 kilos.

COPPER SULPHATE has receded 2s. 6d. per ton for ordinary Liverpool brands, which are quoted for prompt delivery at 18l. 17s. 6d. and at 19l. 2s. 6d. to 19l. 5s. for April.

CORIANDER-SEED is steady at 9s. per cwt. for grinding quality, and 10s. to 10s. 6d. for fair to good Morocco.

CREAM OF TARTAR.—Owing to the advance in raw material and the improved demand, prices are firmer, the quotations for 99 per cent. to 100 per cent. being 74s. 6d., 98 per cent. 73s. 6d., 95 per cent. 71s. 6d., and 92 per cent. 69s. 6d. per cwt.

CUMIN-SEED is slow at 32s. 6d. to 35s. per cwt. for ordinary dusty to fair Morocco, but fine sifted is held for 40s., Malta is also quoted 40s. per cwt.

DRAGON'S-BLOOD.—The *Perseus* from Singapore has brought 16 cases. Part of this parcel consists of reed, and part medium lump. Fine lump is badly wanted, but unobtainable.

FENUGREEK-SEED being scarce on the spot, is held for 11s. per cwt.; but for shipment from Morocco the quotation is 9s. 6d. c.i.f. terms.

GAMBIER.—Block is quoted 29s. to 30s. and cubes at 38s. spot, with small sales thereat.

GAMBOGE.—Fair native-picked Siam continues to sell at 14l. 10s., but the stock of good pipe is extremely limited; no arrivals this week.

GINGER.—Firm. At auction 328 bags Cochin and Calicut were offered, of which 200 had been sold privately before the sale. Good bright washed Cochin was bought in at 52s. 6d.

GLYCERIN.—The annual meeting of the principal international glycerin-refiners was held at the Hôtel Métropole on Wednesday, March 16, Mr. Gossage being in the chair. Practically all the English refiners or their representatives or agents were present, and after discussion it was decided to make no alteration in the price of chemically pure glycerin, so that the official quotation for double-distilled s.g. 1.260 of British make remains unchanged at 95l. per ton for drums and 99l. in cases in 5-ton lots on contract. Lately there has been a willingness among makers of dynamite qualities to consider business on a rather lower basis, and this, in turn, has tended to weaken the market for distilled; market opinion seems to favour a decline.

GUM ACACIA.—Soudan sorts are unaltered, on the spot with small sales at from 32s. to 34s. per cwt.; for shipment prices have varied, some asking 29s. 6d., but for 10 tons for March-April shipment 28s. 3d. has been accepted. Senegal is unaltered at 31s. per cwt. f.o.b. Bordeaux for Bas de Fleuve.

IPCACAUHA.—Dearer. The three bales cultivated Minas at last week's auction were subsequently sold at 10s. 6d. per lb. Since then there has been a further advance, chiefly on speculative account; small sales having been made at 11s. 6d. to 12s. for Rio and for Cartagena 6s. 6d. to 7s. has been paid. Several small lots have arrived at the drug-warehouses, amounting in all to 24 packages (mostly Cartagena), and the stock, which is mostly Cartagena, amounts to 158 packages, of which 15 are East Indian.

LIME-JUICE.—Concentrated West Indian is firm at 18l. 10s.

LINSEED.—New crop La Plata has arrived, and is offered at 66s. per quarter for re-cleaned.

MACE.—Firm to dearer. At auction 32 packages West Indian sold at from 2s. 1d. to 2s. 2d. for fair pale, at 1s. 10d. for palish, 1s. 8d. to 1s. 9d. for fair red, 1s. 6d. to 1s. 7d. for dark red, and 1s. 5d. for broken; 14 cases of Bombay wild mace were bought in at 5d. to 5½d.

MENTHOL.—During the past fortnight a very fair business has been done for the Continent at prices which have not transpired. Spot continues extremely quiet at 8s. 5d. to 8s. 6d. for Suzuki and Kobayashi respectively, and to arrive sales of goods afloat are reported at 8s. 3d. c.i.f. for the latter brand.

MUSK is unaltered. Thin blue-skin Tonquin pod is not offered. Pile 1 old style is held for 54s. per oz., and Pile 3

for 35s. China Cabardine is worth 25s. and Russian 19s. per oz.

NUJMEGS.—West Indian were steady, to ¼d. per lb. dearer at auction, 148 packages being offered and sold.

NUX VOMICA.—The recent sales include 250 packages fair Madras at 8s. per cwt.

OIL, ANISEED STAR.—Spot is slow at from 4s. 6d. to 4s. 6½d. per lb., and to arrive March-April has been sold at 4s. 1d. c.i.f., and near at hand 4s. 1½d. to 4s. 2d. c.i.f.

OIL, BERGAMOT.—The absence of active demand at primary centres has exerted some influence on holders, who are more inclined to listen to reasonable bids; previous figures can therefore be shaded.

OIL, CASSIA.—On the spot the small sales include 80 to 85 per cent. at 3s. 10d. to 3s. 11d. and 70 to 75 per cent. at 3s. 6½d.; to arrive, the sales comprise 70 to 75 per cent. for February-March shipment at 3s. 1d., March-April at 3s. 0½d. and 80 to 85 per cent. at 3s. 5½d.

OIL, CASTOR, is 5s. firmer for Hull make, which is offered at 28l. per ton for first-pressing for April-June delivery, free on wharf London. Belgian is also firmer at 27l. 10s. per ton for first-pressing ex-wharf London for prompt.

OIL, CITRONELLA.—Ceylon in cases is quoted 1s. 1¼d. to 1s. 1½d., and drums at 1s. 0¼d. per lb. spot.

OIL, COD-LIVER.—Our Bergen correspondent writes on March 14 that although the weather during the past week was very calm and the fishermen were at work every day, the output of the Lofoten fishing was disappointing, only 2,800,000 fish being caught with a yield of oil of about 1,600 barrels. The prospects for the eastern places have not improved, and if the fishing is to be limited to the western banks it will hardly give more than mediocre results. The reports giving the following output for all the country:—

	1908	1909	1910
Catch of cod (millions) ...	15.2	16.5	18.6
Yield of cod-liver oil (barrels) ...	20,600	17,000	14,400
Livers for "raw" oils (hect.) ...	5,600	6,500	5,550

The market is decidedly firmer, and finest non-congealing 92s. 6d. per barrel c.i.f. (See cable for latest price.) The exports from Bergen up to date amount to 2,400 barrels against 2,750 barrels at the same date of 1909. In London agents' quotations are now on a higher level; business has been done at 90s. c.i.f. for new oil, but this price was subsequently withdrawn, and from 92s. 6d. to 95s. c.i.f. is quoted. There appears to be no appreciable quantity offering from Norway, dealers holding off, but on the other hand there appears no great anxiety to buy.

An advice dated March 12 gives the following statistics of the catch:

—	Fish	Livers (hect.)	Yield of C.L.O. (hect.)
Lofoten, 1910 ...	7,500,000	792	7,434
" " 1909 ...	6,000,000	1,208	7,799
Whole country, 1910 ...	18,000,000	5,400	16,444
" " 1909 ...	16,500,000	6,496	19,551

The fishing operations (continues the advice) so far have been favoured by extremely fine weather, but the hope entertained of a productive fishing in East Lofoten has now been abandoned. The cod appear to have been moving westward, as the catch has been rather poor at places where hitherto the greatest catch was obtained, while it has gradually improved at places situated further west, where practically no catch was made before this season. Outside the Lofoten district the catch continues very poor on the whole, and in these districts the liver has yielded much less oil than in Lofoten—in some place only 30 per cent. to 35 per cent., against 40 per cent. to 48 per cent. in Lofoten.

OIL, LAVENDER.—Both French lavender and spike oils are very firm, the value of the former being 12s. 6d. for best, and 2s. 1d. to 2s. 2d. per lb. for the latter.

OIL, LEMON.—The demand locally (according to a Palermo advice of March 5) was again brisk, and some speculative interest was apparent among dealers, as the

general state of the article appears to have encouraged some of them to take a bullish position. In addition, the advances which the Camera Agrumaria is giving on citrate-of-lime warrants has brought more circulating capital to the citrus-products industry, and this gives holders more resisting power, the more so as also from abroad the demand has been fairly active. Rather higher figures had therefore to be paid, and the market closed firm with a good tendency. For shipment from 3s. 3d. to 3s. 10d. per lb. c.i.f. is quoted as to brand.

OIL, ORANGE, is firm at the unaltered rates of 6s. for sweet and 6s. 1d. for bitter.

OIL, PEPPERMINT.—The spot values are 5s. 5d. to 5s. 6d. for Suzuki and Kobayashi respectively: to arrive Suzuki has been sold at 5s. to 5s. 1½d. c.i.f., being cheaper. American H.G.H. is quiet at 10s. 9d., and at 8s. to 8s. 3d. for Wayne County.

OILS (FIXED).—*Linseed* closes strong at 34s. for pipes on the spot (a premium of 10s. to 15s. being asked for East Indian), and barrels are quoted at 34s. Ceylon *Coconut* is firm at 42s. and Cochin at 45s. on the spot. *Cottonseed* is quiet and slightly easier at 29s. 9d. for crude, 30s. 9d. for ordinary pale refined, and 33s. 9d. for sweet refined. *Soya* has advanced 6d. to 23s. for naked on the spot. *Rape* is firm at 26s. 6d. for ordinary brown crude, at 28s. for English refined in casks, and at 26s. for Jamba. *Turpentine* is practically unchanged on the week at 42s. 6d. for American on the spot and 42s. 9d. for April delivery. *Petroleum* is nominal at 5½d. for Russian, 6d. to 6½d. for ordinary refined American, and 7d. to 7½d. per gallon for water-white. *Palm* is slightly dearer, Lagos offering on the spot at 33s. per cwt.

OLIVANUM.—The London stock consists of common garblings and siftings; good drop, which would realise full rates, being unobtainable.

OPIMUM.—Business is practically at a standstill on the London market, and prices in primary markets have shown a weak tendency in the absence of business. Persian is quoted at from 17s. 6d. to 18s. per lb. for good-test, but there is very little spot stock in which to do business. Turkey druggists is quoted at 15s. 6d. spot.

Writing on March 4, a Smyrna correspondent states that very little has been done in opium this week, the sales amounting to only five cases extra and extra selected Karahissar at 14s. 2d. to 14s. 7d. respectively for the Continent. Stock being very small, holders will maintain their figures if even the consuming demand is small.

Writing on March 11 a Smyrna correspondent states that the chief feature is the extraordinarily sharp frost during the last four days, a thing which has created large holders of the drug. . . . Certainly frost will do harm to the young plants, but as most of them are now well developed and strong in root there is no fear of any serious loss. The sales amount to 18 cases at 12s. to 15s. 6d. The arrivals to date amount to 1,918 cases against 2,040 cases.

PEPPER (BLACK).—At auction 7 bags fair Ceylon were sold at 3½d. Privately the market is quiet, fair Singapore offering at 4½d. to 4½d., and for March-May shipment sellers quote 3½d. c.i.f. d/w.

PEPPER (WHITE).—At auction 66 bags Muntok were bought in at 7½d. for fair. Privately the market is quiet, fair Singapore offering at 6½d., with sellers of April-June shipment at 6½d. c.i.f. d/w.

PIMENTO.—At auction 62 bags were offered, and a few sold at 2½d. for fair. Sellers of March-April shipment asked 19s. 9d. per cwt. c.i.f.

QUICKSILVER is unaltered; importers ask 9l. 5s. per bottle, and in second-hands 9l. 1s. 6d. is quoted.

QUININE.—At the auction of quinine held at Amsterdam on March 11, 1,417½ kilos. Ed. II. was offered and sold at an average price of fl.10.54½, against fl.10.72 at the previous auction. The next auction will be held on April 1, when 1,417½ kilos., or 50,000 oz. ret., of B.P. sulphate will be offered.

SAFFRON is firm at 36s. 6d. per lb. net for best Valencia. Reports from Spain continue to indicate a rising market owing to a long period of drought having withered the recently planted bulbs.

SARSAPARILLA.—A parcel of 20 bales grey Jamaica is close at hand, and will be offered next week; 6 of red native Jamaica have also arrived.

SENNA.—The s.s. *Clan Macfadyen* has brought 175 bales Tinnevely leaf from Tuticorin, which will probably be offered next week.

SHELLAC is quiet, but steady, with a small business on the basis of 68s. for fair free TN Orange. For arrival TN for April-May shipment is offered at 68s. c.i.f. Good and fine Orange marks are steady at from 75s. to 87s. 6d. AC Garnet is quoted 65s. to 66s. spot, and 63s. 6d. c.i.f.; GAL, 55s. to 57s. 6d. spot, and 56s. 6d. c.i.f. Futures are steady, the business including May delivery at 69s. 6d. to 70s., the value of August being 72s.

SODA NITRATE has advanced 2s. 6d. per ton on the spot, to 10l. for refined and to 9l. 15s. for ordinary.

TURMERIC continues very scarce, with small sales of Madras fingers at from 24s. 6d. to 25s. per cwt., as to quality, for Cochin split bulbs from 14s. 6d. to 15s. has been paid.

WAX, CARNAUBA.—Waxy grey is firm at 85s. spot, at which business has been done.

WAX, JAPAN.—Sales have been made up to 42s. 6d. per cwt. spot, and at 39s. c.i.f. for arrival.

Manchester Chemical-market.

March 15.

There is very little change to note in heavy chemicals, and most descriptions remain steady. Sulphuric and acetic acids are in fair request and prices steadier. Sulphate of copper is in sellers' favour, but white powdered arsenic is quiet at about 12l. 7s. 6d. to 12l. 15s. per ton on spot. Brown acetate of lime is bringing full rates, 7l. 7s. 6d. to 7l. 12s. 6d., but there is little offering. White sugar of lead is quoted 22l. 10s. to 23l., and brown 22l. 10s. In coal-tar products the feeling is again of an upward character. Pitch is exceedingly firm, and local makers ask higher prices. Sulphate of ammonia brings more money, the general figure being 12l. per ton on rails, Manchester. Benzols and carbolic acid are steady at full rates; solvent naphtha is firmer.

Continental Drug and Chemical Markets.

CARBOLIC ACID.—Prices have long remained at a very low level, but a steadier feeling is now evident. Makers have raised their prices for pure phenol by about 10 per cent.; also for raw carbolic higher prices are quoted.

CARNAUBA WAX.—Quiet, with prices well maintained, no supplies having come to hand during the past eight days. The situation in Brazil appears to be steady and unchanged. The prices announced from there range between 8 and 12 per cent. above Hamburg spot prices. For spot goods m.187.50 is quoted for sandy grey and m.175 to m.176 for fatty grey. The exceptional scarcity of yellow qualities continues. For prime yellow qualities m.290 and for middling yellow m.250 per 100 kilos. has been paid.

CHLOROFORM.—Owing to recent competition from a new source, prices were reduced 10 per cent. It is impossible to say whether this reduction will be of long duration.

CITRIC ACID is steadier, chiefly owing to the scarcity of spot (Hamburg) goods. Makers can only book orders beginning with April or a later month, so that immediate orders must be covered from second-hands, who ask from m.290 to m.300 per 100 kilos for lead-free qualities. It is to be feared that prices will rise still further should an early warm season increase the demand.

NAPHTHALENE.—As the wholesale trade last year had covered its needs for the spring, delivery orders are now being executed owing to the early warm weather. In addition there is also an active demand at low quotations ranging between m.15 and m.15.50 per 100 kilos.

POTASH BICHROMATE.—It is known that a convention exists among makers, but on the open market, account must still be taken of the fact that goods from cheaper former contracts are still on hand, and it is impossible to say when these will be exhausted. To-day's prices are between m.64 and m.65 per 100 kilos.

WAX (JAPAN) continues to fluctuate. Recent cable offers ranged between m.80.50 and m.81 c.i.f. Hamburg, but, owing to lack of confidence, little business has been transacted. For this reason there is no inclination to buy, and merchants prefer to cover their wants from hand to mouth.

CEYLON OPIUM IMPORTS.—Although the import duty on opium into Ceylon has doubled the imports in 1909 amounted to 16,744 lb., against 16,367 lb. in 1908.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded. Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining to pharmacy and its allied trades are replied to in these columns, if they are of general interest. Letters submitted to the Editor for publication (if suitable) should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

The Pharmacists' Representation Committee.

SIR,—Will you allow me to thank the subscribers who responded to my appeal for support for the President's Parliamentary Fund? The success which attended the issue of the appeal enabled the committee to place at the disposal of Mr. Glyn-Jones a sum of money to be used in prosecuting his candidature in Stepney, where the excellent fight he made is bound to have some bearing on the next contest. Although the committee has still money in hand, it will not be sufficient to contest another election, particularly if the wish to run two candidates—one from each of the chief political parties—is to be carried out. A list of subscribers will be published as required, and I should be glad if readers who are interested in this matter would send in their subscriptions either to myself or Mr. Woodcock.

Yours faithfully,

J. RYMER YOUNG (Chairman).

17 Bloomsbury Square, W.C., March 15.

The Experiments of Short and Salisbury on Anæsthetic Drugs.

SIR,—The iconoclastic paper of Short and Salisbury, epitomised in the *C. & D.*, March 12, p. 397, on the inutility of rubbing in drugs to ease pain is one that must gain our interest. Have we all, physicians and pharmacists, who have been handling those drugs—opium, aconite, belladonna, even cocaine—day after day and many times a day, giving them with the full hope and belief that at least they relieved pain—have we, hundreds of thousands of us, and for centuries, been the victims of a fallacy? Still, let us face the Truth, though she should kill us. We probably have often been mistaken as to the efficacy of alleged analgesics. How many other drugs has one not added to, say, lin. terebinthina with a view to making it more effective? I, at least, have time after time added chloroform, wintergreen, menthol, oil of saffron, and various other anticipated adjuvants, but have not yet satisfied myself that they made any real difference, or even that the liniment itself was useful any more than as a lubricant for friction. On the other hand, the conditions which exist in actual life can seldom be reproduced in experiment. Critically examining the statements of these gentlemen, what do we find? That you can dip your finger into liniment of aconite, belladonna, opium, or into chloroform and that it makes no great difference so far as concerns your perception of pain. But, after all, we all know this: to dip your finger into anything, even a sink of the most septic matter in the world, is generally safe if the skin be whole. Hitherto we have been taught that the action of belladonna is chiefly local, that of morphine central. Every pharmacist seemed to have confirmation of this in the fact that opium plaster somehow seldom gives satisfaction, whereas belladonna plaster invariably gives some relief. Even this cherished belief is knocked on the head by Short and Salisbury. But they seek, I imagine, to prove too much. It is sought to prove that a belladonna suppository has no more influence on a painful pile than the equivalent of atropine by the mouth or hypodermically. Now, everybody knows that less than half a drop of atropine solution—say, $\frac{1}{200}$ grain—will produce immediate dilatation of the pupil of the eye to which it is applied. But will it dilate the other pupil? Not at all, or only to such a trifling extent as may be due to absorption. But if we believe that atropine acts centrally only, we are forced to hold that $\frac{1}{200}$ grain of atropine

injected at the anus would dilate one eye and not the other. There is no doubt that the external use of opium is, to some extent, rightly rejected. In deference to pharmacological teaching liniment of opium is removed from its place of honour, and it is agreed that any external use of opium is absurd. In reply, one must insist that the experiments do not reproduce the exact living conditions. The horny layer of the skin is in a sense a dead tissue, but it is of the most enormous importance as regards absorption and pain. Anyone who has ever suffered from eczema will realise this. A little itching, a little scratching, a little oozing, and a comparatively insensitive and impermeable portion of skin is altered into a highly sensitive mass of nerve-endings and an intensely absorbent surface. In practice one finds that all embrocations tend to irritate the skin—tend in time to produce a condition of dermatitis—and hence, in some cases at least, the presence of opium may be useful in the liniment, inasmuch as it tends to numb the pain when that point is arrived at—even although it may do so only by absorption and centrally. In a word, the whole fallacy of these experiments lies in the statements that belladonna, opium, aconite, etc., have no effect on the unbroken skin, for the skin is probably never unbroken in a pathological state. Even if we must hold that morphine has no local anæsthetic effect, the use of morphine suppositories or gall-and-opium ointment is by no means irrational; for there is a slowness of absorption, extending over hours, which permits of a continuous and harmless dosage, whereas the immediate effect of the same amount by the hypodermic method might be undesirable and certainly would be more transient. I have considerable faith in the experience of the "man in the street" as well as the pharmacist at the counter. If the former finds, time after time for fifty years perhaps, that the blue pill at night and the seidlitz powder in the morning relieve him of that complex of symptoms which he calls "liverishness," it is in vain to quote physiologists to the effect that mercury cannot increase the flow of bile. Perhaps they are right, but perhaps, also, it is not really bile that troubles the man. The one thing necessary is to observe that the relief of unpleasant symptoms follows the taking of certain remedies. Medicine is an empiric art: the statements of the pharmacologist may only show that our explanations of the case are erroneous.

Yours truly,

Dublin, March 14.

J. C. MCWALTER.

Poor-law Dispensers.

SIR,—At a time when the reform of the Poor Law is so much in evidence, there is no association or society to represent the pharmacists within it. Other Poor-law associations are alive to the desirability of being able to submit their views, if the authorities afford an opportunity, but the dispensers are not represented as a body. A "Public Pharmacists' Association" exists, but this body some years ago deleted the Poor-law sub-section, and could not approach the Local Government Board like an association formed within the Poor Law. The most ready course would be for the Public Pharmacists' Association to reinstate the Poor-law sub-section, but a preferable course would be for a "Poor-law Pharmacists' Association" to be formed, of which all Poor-law dispensers of the various recognised qualifications could become "members" by paying an annual subscription.

Yours truly,

J. F. DUNSTAN,

Pharmacist Southwark Union (North).

81 Borough Road, S.E., March 15.

Esperanto and Pharmacy.

SIR,—The idea of an International auxiliary language makes striking progress not only in all branches of human scientific activity in general, but particularly in pharmacy. Therefore the Internacia Esperantista Farmacia Asocio (I.E.F.A.), founded in Barcelona during the fifth Esperanto Congress, strives now to attract into its ranks Esperantist chemists living in the various countries of the world. The list of these will appear soon, as well as a regular monthly journal of pharmacy, with the collaboration of writers from all lands. A technical Esperanto

pharmaceutical glossary is in preparation, and the Scienca Esperanta Asocio also prepares a general scientific glossary. Following the example of the International Medical Congress of Budapest, the International Pharmaceutical Congress, which will take place in Brussels in the beginning of September 1910, officially accepts the use of our International language. For the same Congress, the success of which will probably be very great, the possibility and the utility of founding an international pharmaceutical federation or league will be discussed. In this connection the Esperanto question will naturally come to the fore, and the partisans of Esperanto will warmly defend their ideal.

Sincerely yours,

OSCAR VAN SCHOOR.

Antwerp, March 12.

Soda-water Making.

SIR,—My first year's results may be of service to "CO₂." For five years my turnover in the syphon-trade had averaged 15s. per week, which yielded a profit of from 4s. to 4s. 3d. per week, while I ran the risk of having to pay for lost syphons, when I decided to make an experiment and manufacture my own. After examining various types of machines, I resolved to go in for a saturator and not an agitator. By waiting and looking about I came across a good second-hand machine, which cost me, when delivered and fixed, 26l., to which I had to add a filter (4l. 10s.), slate tank (1l. 4s.), and various other items, which brought the amount to 31l. 17s. 9d. The question of the size of syphons had to be decided, and I went in for 40-oz. plated tops. Of these I ordered eighteen dozen clear and one dozen blue, vases branded and tops stamped with name and address, and cases for same, each to hold six, also branded. The makers of carbon dioxide charged me 5s. per tube for gas. The tubes hold 28 lb. each, and are lent free for thirty days; afterwards ½d. per day is charged for hire. At first I had a little difficulty in emptying the tube within the specified time, but when my trade began to grow, I was able to take more than one tube per month. The next step was to obtain an analyst's report as to the quality of the waters I was making; for this I paid 1l. 1s. to the borough analyst, and then I put his report prominently on all advertisements. The turnover soon began to increase. I sent samples to the local doctors and the inhabitants who were most likely to use this commodity, and I found that not only the doctors, but my customers also began to recommend my make. I very soon had to order more syphons and cases, and more capital was required. Below I give the returns each month for the first year: July, 4l. 2s. 8d.; August, 4l. 15s. 6d.; September, 2l. 13s.; October, 4l. 0s. 9d.; November, 3l. 13s. 9d.; December, 5l. 14s. 11d.; January, 7l. 0s. 4d.; February, 5l. 3s. 11d.; March, 6l.; April, 9l. 2s. 7d.; May, 9l. 6s. 8d.; June, 7l. 14s. The expenses had been: Analysis, 1l. 1s.; labels, 2l. 13s. 6d.; essences, 16s.; sugar, 3l. 18s. 10d.; CO₂, 4l. 16s.; leaving a net profit (exclusive of labour, rent, etc.) of 56l. 2s. 9d. At the end of the first year I valued my plant as follows:

	£	s.	d.
Machine, etc.	31	17	9
New reducing-valve	2	9	6
Fittings	0	12	6
6 doz. cases	8	7	11
61 doz. syphons	73	3	6
Sundry articles	3	9	5
	120	0	7
5 per cent. depreciation	6	0	7
	114	0	0

So far I have no reason to regret my venture.

Yours faithfully,

F. E. B. (101/13.)

Physicians v. Proprietaries.

SIR,—I have just read your report of the discussion about proprietary medicines at the Royal Society of Medicine. It appears to me that in this case, as well as in other arguments against patent medicines, the real cause of success of these remedies has not been touched upon, and that is, that the public has not that confidence in the medical profession which this worthy body desire it to

have. We chemists, coming into contact with sick persons, have many opportunities to hear of the gross ignorance, incompetence, and carelessness with which ordinary patients are frequently treated by their doctors; is it, then, to be wondered at if the patients take the law into their own hands and try to alleviate their sufferings? I am now myself in mourning, after having had some heart-breaking experience with a medico. The real remedy, in my humble opinion, lies in some drastic changes in the medical curriculum, coupled with some new regulation by which ordinary medical practitioners should be compelled to seek the advice of a specialist whenever they treat a serious or long-standing illness. In reference to specialists, I may say that two-guinea fees are not within the reach of every patient. Such radical changes in the treatment of patients will induce more confidence in the medical profession and will cause all these nostrums to disappear from the market, to the dismay and extinction of many of our newspapers.

Yours truly,

M.Ph.S. (106/38.)

Subscribers' Symposium.

(Information Solicited or Supplied.)

Showing Canaries.

F. W. F. A. (104/56) writes: Could you give me any information as to any substance or substances used for spraying canaries for show purposes that tend to make the feathers look glossy and hold firmly together?

Arc We Downhearted?

Small child produces dilapidated 6-oz. bottle. "A penn'orth of earache lotion, and please exchange this for a smaller bottle, and give me some cotton-wool." Why this pessimism in the "profession"?—A. R. (107/36).

Dispensing Lin. Potass. Iodid.

I should like to know what the practice is in dispensing lin. potass. iodid. c. sapone. I have several times recently made a sixth part of the B.P. quantity and sent it out in a 2-oz. pot. Is this the correct thing to do?—Registered Chemist (107/52).

University Grants.

Sir Thomas Barclay (Birmingham) informs us that the actual amount of the grant by the German Government to Berlin University is 145,000l., while the total grants by the British Government to all Universities in the United Kingdom is only 100,000l.

Ant-pest in House.

This problem, put by "J. O." (53/33), presents no difficulties. The following never fails: Mix calomel 1 part and sugar 7 parts, and place in their haunts. The ants eat it readily, and in a few days every ant will have disappeared; they will come from a considerable distance to enjoy a feed of this mixture. Trusting information will be of general use.—H. Horrell.

English Assistants in Paris.

Would you kindly correct the statement in last week's issue that the Chemists' Assistants' Galen Club in Paris are contemplating fusion with another British club in Paris? Although several of its members are co-operating with some British residents in Paris to form a social club, it will be in no way connected with the Galen Club of British Pharmacists.—W. R. Scott (Paris).

The Harebell.

The observations and reflections by "Xrayser II." re plant-names remind me of my childhood days, when I used to gather the harebell (*Campanula rotundifolia*) on Portsdown. It is spelt "Hairbell" in Johnson's Dictionary, which seems to me more appropriate. When plants receive names associated with the animal or insect kingdoms, the probable connection is likeness to or liking for; hence we have bee, spider, and butterfly applied to the orchid, and hare lettuce given as a species of *Sonchus*. One hears the saying "Wild as a March hare"; *Lepidus timidus* is not a lover of exposed positions for long together, but beats a hasty retreat if caught in one, and is quickly lost to view in the first shelter it can find. *Hyacinthus non Scriptus* or *Scilla nutans*, Hooker, seems more applicable as regards time of year. I must plead ignorance (and I fail to see the connecting-link, unless it is some poetic allusion) why either of these plants should be so named. What is the foundation?—E. J. C. (107/51).

Legal Queries.

Consult the legal information in "The Chemists' and Druggists Diary," 1910 before writing about your difficulty.

D. H. J. (106/68).—See the *C. & D. Diary*, p. 211, for particulars as to the sale of mineral acids, also p. 442 of this issue.

Rus (105/70).—In counterpoising a bottle on scales you may use a rider or any other balancing agent.

X5005 (105/74).—"Digestive Mixture" does not make the preparation liable to medicine-stamp duty; "Indigestion Mixture" does. If you use the latter title you cannot bring the mixture within the "known, admitted, and approved remedies" exemption by putting on the label your prescription-book number. The formula must appear in a recognised book of reference such as "Pharmaceutical Formulas," which was the first to be approved by the Revenue authorities.

A. E. E. (93/33).—(1) The Medical Act, 1858, makes it illegal for any person not registered under that Act to use the name or title apothecary. Such a description as "The Yorkshire Apothecaries' Co.," used by a chemist may be regarded as an offence, but proceedings are not likely to be taken if the business is a drug business and remedies are not prescribed. (2) Because it was not sent by newspaper post. (3) Witnesses who sign a will are witnesses to the signature only, and need not be shown the contents.

Subscriber (107/33) entered into an arrangement with aerated-water manufacturers, who agreed to supply him with aerated waters in syphons at 1s. 6d. per doz., less a rebate of 6d. per doz., so long as householders in his district were being supplied by other manufacturers direct for 2s. per doz. This arrangement was continued until, and for some time after, the manufacturers' business had been transferred, and now the successors intimate that they can no longer supply at the reduced price, and state that the agreement of their predecessors has nothing to do with them. What is the law of the matter? [We do not think that the letter given by the first manufacturers to "Subscriber" binds their successors in business, as the same appears to be a personal obligation, which the givers of the letter have ceased to carry out for the last two years. "Subscriber" has, in our opinion, no claim whatever against the successors in the business.]

Miscellaneous Inquiries.

As we do not in this section repeat information given during the past twelve months, inquirers should refer to the copies mentioned. Back numbers for the past five years can generally be obtained from our office at the published prices.

Canis (104/41) has a YOUNG BULLDOG OF FINE BREED, twelve months old. He has a good appetite and his food is ample and plain, consisting of hound-meal, "Melox" biscuits, and occasionally a little cooked liver; yet he is thin. He has lately been troubled with his teeth and discharge from both ears, but that is better. He seems healthy and full of spirit, but the worst trouble is that whenever he is taken for a walk he is continually vomiting, sometimes phlegm and sometimes undigested food. Worms have been suspected, so "Canis" has given daily a dose of sulphate of iron. Small flat white worms about $\frac{1}{2}$ in. in length have commenced crawling from the dog. A dose of kamala and santonin was then given, six hours after which he passed about twenty round worms, 3 in. in length. He still appears perfectly well, but the sickness is even more pronounced. To what are the phlegm and sickness due, and what general treatment as regards medicine and diet would bring him into a healthy condition and put flesh on him? (There is no doubt that the dog is suffering from a slight attack of bronchial distemper, along with a severe invasion of worms. The food given seems to be right enough; give him in addition oatmeal porridge and milk daily and a red herring or bloater. You can withdraw the preparation of liver. The medicinal treatment should consist of expectorants and vermifuges as follows:

Vin. ipecacuanhæ	xxx.
Liq. arsenicalis (Fowler) ...	iv.
Spt. æther. nit.	3j.
Glycerini	3ij.

Misce pro dose. To be given twice daily.

Syr. rhamni cath.	3j.
Santonin	gr. v.

To be given as occasion requires.]

J. S. (92/26).—Taxidermists generally apply white paint to animals' skulls used as wall-trophies. If not preserved in this way the bones shrink in time and the skulls drop to pieces.

M. M. (105/7).—The formula for lysoform mouth-wash has not been published, so far as we are aware.

E. C. (92/36).—SILVERING-POWDER.—We have not published a formula for this for some years. The following is a suitable powder for silvering copper articles:

Potassium cyanide	3ij.
Silver nitrate	3j.
Prepared chalk	5vj.

Mix together thoroughly. To use the powder a little is sprinkled on a wet rag and well rubbed on to the copper surface. When the silver has been deposited the article is washed, dried, and polished.

Thirsty (97/51).—(1) HEADING-POWDER FOR AERATED BEVERAGES.—See *C. & D.*, April 24, 1909, p. 662 (2) PASTE FOR LABELS.—There is a number of recipes in "Pharmaceutical Formulas," but the following is one we have not published previously:

Liquid glucose	15 lb.
Wheat flour	10 lb.
Rice flour	2 lb.
Carbolic acid	$\frac{1}{2}$ lb.
Water	9 $\frac{1}{2}$ gals.

Dilute the glucose with water. Separately make the flour into a smooth cream and pour into the glucose solution. Heat until the paste thickens, remove from the fire, and add the carbolic acid.

Caramel (98/18).—BUTTER-SCOTCH.—The following recipe was last given in the *C. & D.*, October 1, 1904, p. 591:

Sugar	4 lb.
Water	15 oz.
Cream of tartar	$\frac{1}{2}$ dr.
Butter	2 oz.

Put the water, sugar, and cream of tartar into a pan and stir till boiling; do not stir after it begins to boil. Add the butter after removing from the fire, but do not stir it in.

W. G. (90/56).—CAGE-BIRD SPRAY-SOLUTION:

Chinosol F.	3ij.
Sacchar. ust.	xxx.
Aq. cinnamomi	3iv.
Aq. ad	3xx.

Mix, and when solution is complete filter.

For use one or two teaspoonfuls is added to 4 oz. of water and used as a spray or bath.

H. B. (91/43).—HOME-MADE SOFT SOAP.—The following method was first published in *THE CHEMIST AND DRUGGIST* many years ago:

Dissolve 20 lb. of caustic potash in 3 $\frac{1}{2}$ gals. of water; when cold pour the solution in a thin stream and slowly in 8 $\frac{1}{2}$ gals. of cotton-seed oil or 75 lb. of melted tallow or grease, stirring with a wooden stirrer 3 in. broad. Stir gently until the potash and oil have combined and the mixture has the appearance of honey. Cover and set aside in a warm place until next day, then stir gently but well, and set aside for several days when the product is ready for use.

Ebona (91/22).—BOOK ON WOOD-DISTILLATION.—Dumesny and Noyer's "Wood Products, Distillates, and Extracts" (Scott Greenwood, 10s. 6d.). This was reviewed in the *C. & D.*, July 24, 1909, p. 124.

Apenta (106/8).—GOLD INK.—This is made by triturating the powdered metal or an alloy of similar colour with water to which mucilage or water-glass is added in sufficient quantity to give the necessary viscosity.

Amigdala Amara (91/53).—CYANOGENETIC GLUCOSIDES.—The following is the Imperial Institute method (Drs. Henry and Auld) for detecting the presence of cyanogenetic glucosides in feeding-stuffs: A convenient quantity of the product is ground as rapidly as possible, weighed, placed in a Soxhlet extractor of the ordinary type, and re-percolated with hot alcohol (in which all the glucosides of this type, so far described, are soluble) until exhausted. The solvent is then distilled off on the water-bath and the residue mixed with about 50 c.c. of water to which 10 c.c. of 10-per-cent. hydrochloric acid or sulphuric acid has been added. This mixture is then distilled, more water being added from time to time, if necessary, until hydrocyanic acid is no longer found in the distillate. The distillation can be greatly expedited by using a current of steam. The amount of hydrocyanic acid in the distillate may then be estimated volumetrically by Liebig's method, but it is more convenient to use a slightly modified form of the Fordos and Gelis process, which depends on the conversion of the hydrocyanic acid into cyanogen iodide according to the equation $\text{HCN} + \text{I}_2 = \text{HI} + \text{CNI}$. In the original process the solution containing the hydrocyanic acid is made

faintly alkaline by adding caustic soda, and then the excess of alkali is converted into sodium bicarbonate by adding "soda water," but it is much more convenient to add at once a slight excess of sodium bicarbonate, and then to titrate with standard iodine solution, taking the production of a faintly yellow colour, due to excess of iodine, as indicating the end of the reaction. In this way minute quantities of hydrocyanic acid can be estimated readily. It is important to ascertain whether the product under examination contains both glucose and enzyme, and this can be done by placing a quantity of the freshly ground product in water and ascertaining whether hydrocyanic acid is formed. It is advantageous to render the water antiseptic by the addition of a little chloroform or toluene.

Petronius (91/65).—FORMALDEHYDE MOUTH-WASH.—The liquid form of formic aldehyde, sold commercially as formalin, is a 40-per-cent. solution in water. As an ingredient of a mouth-wash formalin is of value in the strength of $\frac{1}{2}$ per cent. Stronger solutions should not be used for this purpose, owing to its very irritating action on the mucous membranes, and in some cases (septic and inflamed mouths) the solution should be reduced to $\frac{1}{4}$ per cent. or less. A most useful and beneficial form of formic aldehyde is the tablets, such as "Formamint." They contain, with sugar and gum arabic, a proportion of 0.01 formaldehyde by weight in 1 gram. Citric acid is added for the purposes of palatability, while a few drops of pepsin-hydrochloric acid ensure the liberation of free formaldehyde during the solution of the tablets in the mouth. They are used in septic and inflamed conditions of the mouth and throat. From these observations you may be able to devise a liquid preparation, using citarin as the formaldehyde compound.

Victoria (96/60).—As far as we are aware black beer is not well known in the United States.

Connaught (94/69).—(1) BIG GALL IN CATTLE is engorgement and distension of the gall-bladder, due to obstruction of the duct. This may be caused by foreign bodies, "such as parasites," within the bile-duct, obliteration of the duct, and structural changes. There may be also inspissated bile and a deposit adhering to the inner walls of the gall-bladder. The disease is generally found in heavy fed bullocks and in sheep suffering from fluke. The treatment consists in giving mild aperients and salines, such as mag. sulph., bitter tonics, gentian, calamus, and acid. nit. mur. dil. The practice, however, is to feed the animal as long as required and dispose of it to the butcher, this being the cheapest method. (2) The preparation you name is a proprietary article. (3) VETERINARY INSECTICIDES.—Any of the following can be relied upon as safe and effective for destroying lice on cattle and horses. It is advisable to clip the hair of the parts or the whole body, so as to ensure the remedies reaching the infected area:

1. Tobacco-juice	...	...	1 pint
Stavesacre	...	...	1 lb.
Water	...	...	2 pints
2. Oil of tar	...	...	1 oz.
Sperm oil	...	...	1 pint
3. Carbolic oil	...	...	5 oz.
Solution of potash	...	...	2 oz.
Sperm oil	...	...	1½ pint
4. Tobacco-juice	...	...	16 oz.
Oil of tar	...	...	8 oz.
Soft soap	...	...	1 lb.
Black sulphur	...	...	½ lb.
Water	...	...	2 gals.

H. H. (91/28).—It is unnecessary to commit the B.P. to memory when preparing for the Minor examination. The Minor experiences which we give in these columns from time to time will show the kind of knowledge expected by the examiners. A list of suitable books for pharmacy students, with explanatory notes, is given in our last Educational Number (*C. & D.*, August 14, 1909, p. 314). Full particulars regarding naval dispenserships are given on the same page. Vacancies are advertised as they occur, and candidates must hold either the Minor or Major certificates.

J. S. (86/47).—(1) BOOKS ON CHIROPODY.—See *C. & D.*, February 5, p. 238. (2) ELECTROLYTIC REMOVAL OF SUPERFLUOUS HAIR.—We know of no book devoted to this subject. The process is carried out as follows: The apparatus needed is (1) a constant-current battery of from ten to twenty cells; (2) an absolute dead-beat galvanometer; (3) long, light, pliable rheophores; (4) needle-holder, connected with the negative pole of the battery; (5) fine-steel sewing-needle; (6) positive electrode of carbon or brass covered with chamois-leather. The needle is introduced into the hair follicle for a distance of $\frac{1}{16}$ to $\frac{1}{8}$ in. The patient holds firmly the positive electrode, previously well soaked in hot water. The current is closed by the operator pressing upon the interruptor, a current of

5 milliampères being employed for half a minute in the case of strong hairs, weaker currents being sufficient for finer hairs. The hair is held with forceps, and when destroyed comes away with gentle traction. The current is then broken and the needle withdrawn. Minute scars are left on the skin, but these disappear in a week or so. It is not usual to extract more than fifty hairs at a sitting. The sensitiveness of the skin may be diminished by a previous application of cocaine ointment.

A. M. (85/55).—The FIRE-EXTINGUISHING POWDER for use in fires caused by spirit appears to consist of sodium carbonate tinted lavender colour. It is thrown on the flames.

B. & D. (88/73).—(1) PHOSPHORISED QUININE-AND IRON TONIC, P.F. 1.—The following is from "Pharmaceutical Formulas," and under above title may be sold free from stamp-duty by chemists and druggists as a "known, admitted, and approved" remedy:

Quinin. sulph.	...	...	5iss.
Acid. phosph. dil.	...	...	5x.
Tinct. aurant.	...	...	5x.
Inf. ealumb. conc.	...	...	5x.
Glycerin.	...	...	5iij.
Liq. chirata conc.	...	...	5x.
Ferri ammon. cit.	...	...	5iv.
Aq. chloroformi ad	...	...	℥lxxii.

Mix in above order, keep forty-eight hours, and filter. Dose: One tablespoonful to be taken three times a day in a wineglassful of water, soon after meals.

(2) IODISED SARSAPARILLA, P.F. 84.:

Potass. iodid.	...	...	5vj.
Liq. taraxaci...	...	...	5vj.
Dec. sarsæ co. conc.	...	...	5iij.
Liq. potassæ	...	...	5ij.
Chloroformi	...	...	5ij.
Aquam ad	...	...	5iv.

Misce: Dose: One tablespoonful, in water, three times a day.

(3) The cloudy-ammonia formula which you quote requires the use of distilled water, otherwise a precipitate readily forms.

Optics (92/25).—WATERPROOFING CLOTH.—The general method is to use a solution of aluminium acetate made by dissolving alum (3 oz.) and lead acetate (4 oz.) in water (1 gal.), the aluminium acetate giving a rain-repelling property to cloth impregnated with it. The more modern way is to use aluminium-tannate solution made by adding tannin ($\frac{1}{4}$ oz.) to the clear aluminium-acetate solution. Many of the rain-repellent garments now sold are simply impregnated with paraffin wax. The paraffin wax is dissolved in benzine (3 to 10 grains to 1 oz.), the solution sprayed on the cloth, and the cloth then passed through hot rollers.

Strophanthus (105/25).—COUGH-MIXTURE BASIS.—Decoction of Irish moss makes a good mucilaginous base for a cough-mixture. It is made by soaking Irish moss (5j.) in water (5vj.) for an hour, then heating on a water-bath and straining. Syrup of cupmoss was referred to in the *C. & D.*, September 18, 1909, p. 486, and September 25, p. 523.

J. J. P. (223/10).—SHAMPOO-POWDER.—See *C. & D.*, March 12, p. 424.

H. W. M. V. (Deft) (93/50).—We are not acquainted with the dental vulcanite to which you refer.

Our Retrospect.

(From the "*C. & D.*," March 15, 1860.)

Mirror of the Month.

Parliament has been busy since our last, and among the other results of its labours we may note as interesting to our readers the alteration in the cork duties, which, it is to be hoped, will result in the future production of not only cheap but good corks, as, in consequence of the present state of that trade—the same price being paid for the manufacture of common as best corks—a premium is given on the inferior article. The other changes caused by the alteration of duties are noted in our Trade Report. The same august body have been passing Bills to amend the law relating to the unlawful administering of poison and for prevention of adulteration in food, etc. An abstract of the former measure will be found in another part of our Circular, and the latter, partaking as it does of the meddling policy which characterised the Bill of last Session to regulate the Keeping and Sale of Poisons, we have made the subject of an article. The Medical Acts Amendment Bill was also read a third time on the 6th instant and passed.

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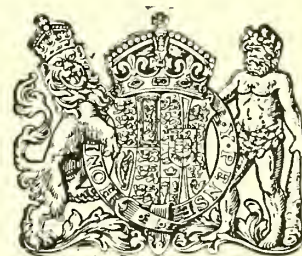
KING

and the

QUEEN

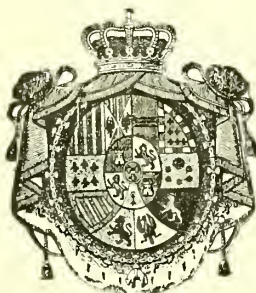


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Arecoline.	Perborate of Soda.
Cantharidine.	Pelletierine tannate.
Colchicine.	Pilocarpine.
Digitaline cryst. (digitoxine).	Quassine.
Ergotine.	Rinonine.
Eserine.	Sparteine.
Lecithine	Veratrine.
	Yohimbine.

French Alkaloid Works:—

H. SALLE & CO., PARIS.

Sole Agents: F. WACHENDORFF & CO.
37 CRUTCHED FRIARS, LONDON, E.C.



OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 19, 1910.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

• Easter Holidays •

Advertisements for insertion in next week's issue (March 26) must reach the office of "THE CHEMIST & DRUGGIST" Supplement not later than 4 p.m.

• WEDNESDAY, MARCH 23 •

All announcements received after the Supplement has gone to press will be inserted in the following week's issue (April 2). Stamped addressed wrappers for the issue of March 26 should also reach this office by Wednesday morning, as "The Chemist & Druggist" Offices will be closed from - - - Thursday night March 24, until Tuesday morning, March 29. - - -

42 CANNON STREET, LONDON, E.C.

March 19, 1910.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, W.—Good middle-class Business; chiefly ready money; returns £2,200 (present rate); net profit about £500; full investigation invited.

2.—LONDON, S.E. (Suburban).—Good middle-class Business; Retail and Dispensing; held by vendor many years; returns between £950 and £1,000 per annum; gross profit £375; price £825.

3.—LONDON, S.E.—Cash Business; Retail, Prescribing, and Dispensing; returns present rate £1,300, at fair prices; commodious shop, fitted in mahogany and plate glass; comfortable residence; garden; price £850.

4.—LONDON, N.—Illness cause of sale; ready-money Business; Retail, Prescribing, and Optical; returns £955; profit (net) £276; proof given; rent £59; now lease; price £400, for which full value is offered.

5.—BLACKHEATH (near).—Modern Pharmacy; position unique; returns under management £1,200; net profit 25 per cent.; double-fronted shop, well fitted and fully stocked; rent £67; long lease; price about £900.

6.—HOME COUNTY.—Established Business; Retail, Dispensing, and Photographic; returns about £700; handsomely-fitted shop, double fronted; roomy house; side entrance; terms £50 and valuation of stock and fixtures.

7.—LONDON, N.—No immediate opposition; good middle-class Business; corner position; returns exceed £800; attractive shop, double fronted; immediate sale necessary; no reasonable offer refused.

8.—BUCKS.—Very old-established Business, including Wines and Spirits; returns between £1,700 and £1,800 per annum; net profit about £400; price £850; full investigation invited.

9.—GLOS.—Established Business; Retail and Prescribing; returns between £700 and £750 yearly; gross profit 40 per cent.; several good Proprietaries are included; price £550.

10.—LIVERPOOL (near).—Dispensing and Retail Business; returns last year £660; net profit £220; rent £32; comfortable house, held on lease; price £450.

11.—NORTH OF ENGLAND.—Old-established Business; main thoroughfare; returns average £1,092; profit (net) £280; handsomely-fitted pharmacy; single fronted; price £1,000.

12.—WORCESTERSHIRE (Market Town).—Retail, Dispensing, and Photographic; all good middle-class trading; returns about £1,100 per annum; gross profit £450; price £700.

13.—DERBYSHIRE (Health Resort).—Retail and Dispensing Business; established 1860; held by vendor 25 years; returns £700; gross profit 50 per cent.; about the value of stock and fixtures will be accepted.

14.—SOUTH COAST.—Dispensing and Retail Business; returns about £800, at fair prices; well-appointed shop; rent £65, which includes a good residence; lease 14 years; price £550.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 160 V.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

F. J. BRETT, M.P.S., gives personal attention to all VALUATIONS. An experience of over thirty years is at your disposal.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

We have CASH buyers for good businesses up to £5,000 in all parts of the United Kingdom.

Can sell your business for you in most cases from Buyers on our Books.

We desire to again bring before your notice the NECESSITY of having your stocks carefully taken. We pride ourselves on our high-class detail work. We have a reputation of nearly forty years' successful work for Pharmacists behind us, and we are still marching forward. Correspondence on the very vital question of Stocktaking very cordially welcomed.

PARSON C. BAKER

174 VICTORIA ST., LONDON, S.W.

Recommended by—MESSRS. BARRON, HARVEY & CO.
Telephone: MESSRS. MEGGESON & CO.
No. 27 Victoria MESSRS. BARCLAY & SON, LTD.

SOUTH COAST.—Good Business town; central position; a very much neglected Retail, Prescribing and Dispensing Business, with good house and shop; good window; capable of doing in proper hands very large turnover; now only about £500; rent £66 on lease; owner must leave, and first reasonable offer will be accepted.

SOUTH LONDON.—Good double-fronted Shop and large house; £75; opened 5 years and returning £1,500, continuously increasing under good qualified manager; price is £1,000, or near offer, and net profits are guaranteed about £500; the fullest investigation is desired, or Partnership could be arranged.

HAMPSTEAD.—An old-established Pharmacy, doing nice Dispensing and Family trade at good prices, is for Disposal at less than the value of the stock and fixtures owing to proprietor's ill-health; well-fitted shop and excellent windows; price about £250.

VALUATIONS for Sale, Purchase, or Probate. Annual or periodical valuations at very reasonable prices. Inquiries solicited.

FREDK. WM. SMITH,

Licensed Chemists' Valuer.

Businesses for disposal, Valuations for transfer, Probate, &c. Stocks and fixtures purchased to any amount for cash. Stocktakings undertaken, personally conducted.

3 Belgrave Terrace, LEEDS. Telephone 2949.

T O M T O M

Telegraphic Address.

THOS. TOMLINSON & SON,

Chemists' Valuers and Expert Stocktakers,

Businesses transferred privately.

29 NEW CANNON STREET, MANCHESTER.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—**NORTH OF ENGLAND.**—Photographic Chemist's Business; in excellent position; returns over £4,000; clear net profit £600; handsome shop, heavily stocked; owner retiring; price £1,600; strongly recommended.

2.—**LANCS. COAST.**—High-class Retail and Dispensing Business; full prices obtained; easily worked; returns about £1,000; net profit £400; splendid position; scope for increase; price £1,000.

3.—**EASTERN COUNTY.**—Unopposed Light Country Retail, with valuable appointment; returns nearly £800; net profit £250; low rent; good house and shop; well stocked; same hands many years; price £500.

4.—**CHESHIRE.**—High-class Dispensing and Retail Business in most desirable locality; returns nearly £700; clear net profit £230; low rent; good house; handsome Pharmacy; price £450.

5.—**MONMOUTHSHIRE.**—Good-class Country Retail, in busy market town; returns £650 to £700 under manager; scope for increase; low rent; well fitted and stocked; price £425, or near offer.

6.—**LONDON, SOUTH** (Distant Suburb).—Good-class Retail and Dispensing, with valuable appointment; returns over £1,000; good profits; convenient house; stock and fixtures worth £600; price £725.

7.—**WEST LONDON.**—Good-class Light Retail, in growing suburb; returns over £900, under manager; plenty of scope; price £650.

8.—**LONDON, E.**—Profitable Cash Retail; returns £400; net profit £170; very low rent; selling through old age; price £150.

9.—**SUFFOLK** (Market Town).—Good-class Light Retail with valuable Specialities; returns £900; net profit £270; capable of increase; splendid house and garden; price £800, or £100 and valuation; strongly recommended.

10.—**KENT COAST.**—Good-class Retail, Dispensing, and Prescribing Business, in splendid position; returns £950, increasing; modern-fitted shop, fully stocked; unlimited scope; price £750, or offer.

11.—**DEVON.**—Light Retail, Prescribing, and Dispensing, in central position; returns nearly £850; scope for increase; large well-fitted shop and good stock; price £500, or £50 and valuation.

12.—**SOUTH COAST.**—Light Retail, Dispensing, and Prescribing Business in good position; returns £800; net profit £200 to £250; good house and shop; low rent; long lease; price £520, or £200 down and £365 by instalments.

13.—**MIDDLESEX** (few miles out).—Profitable Light Retail and Prescribing Business in very good position; returns £500; excellent opening for Dentistry; good house and garden; low rent; price £200, or near offer.

14.—**LONDON, S.E.** (Good Residential Suburb).—Good-class Retail and Dispensing Business, increasing; returns nearly £1,250; good prices; modern Pharmacy, in fine position and well stocked; price £750.

15.—**NORWOOD.**—Good-class Retail and Dispensing; in pleasant suburb; returns £600; net profit £190; low rent; valuable lease; price £350.

16.—**LONDON, N.W.**—In densely-populated locality; returns £10 to £12 weekly; half profit; very heavily stocked; price £225; trial allowed.

STOCKTAKING VALUATIONS.

WE undertake valuations in any part of the kingdom, and value the stock in full detail without disturbing the routine of the business in the slightest degree. Read p. 132 in *C. & D. Diary*, and then write for our special reduced terms.

BUSINESSES WANTED.

MESSRS. BERDOE & FISH are in immediate want of sound concerns returning from £800 to £3,000, particularly in the Home Counties, West of England, Midlands, and Manchester districts; cash buyers waiting, quick sales guaranteed, without publicity. Terms sent on application.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

BIRMINGHAM.—A well-established Light Retail Business to be Disposed of, immediately; a grand opportunity for anyone just starting; only £200 required. 241/20, Office of this Paper.

BIRMINGHAM (Suburb).—Good-class and rapidly-increasing Business in pleasant, healthy locality; low rent on lease; returns about £800; splendid opportunity. Also for immediate Disposal, Business in main thoroughfare; thickly-populated district; first-class position; returns £650; capable of big increase. Full particulars from Charles L. Moores, Druggists' Sundriesman, 32 Navigation Street, Birmingham.

BRISTOL (City).—Death vacancy; splendid corner position; main thoroughfare; well fitted and stocked; Retail and Prescribing cash trade; good opportunity for young up-to-date pushing man; price £400, or valuation. "Antipyrin" (241/24), Office of this Paper.

LONDON, S.E.—Splendid opportunity; genuine Business; lock-up shop; rent only 10s. weekly; excellent position in busy neighbourhood; returns under management £10 weekly, principally Prescribing and Dispensing; severe illness compels immediate sale, so will accept very low price. "S., 72 Herno Hill Road.

MANCHESTER.—Business for Sale, very old-established (over 60 years), with good Dental practice and every convenience; good living house, etc. 243/19, Office of this Paper.

MIDLANDS.—Mixed Business for Sale, doing £500; good Prescribing; no Patents; gold mine for a qualified radical Pharmacist; easy rent; good house; satisfactory reasons for disposal; £500 or valuation. 240/27, Office of this Paper.

NORTH OF ENGLAND.—Old-established Retail and Photographic Business in busy main thoroughfare; returns £780; rent £52; lock-up shop, well fitted and stocked; price £530. Apply, 238/16, Office of this Paper.

SOUTH WALES.—Unopposed Business in pleasant mining district; population about 8,000; low rent or easy lease; returns over £600 under unqualified management, and capable of increase; satisfactory reasons for disposal; stock about £180; part can remain on security. Apply, Heatherwick, c/o Oldfield Pattinson, Manchester.

S.W.—Exceptional offer and a bargain; a nicely-fitted, unopposed Light Retail Pharmacy may be secured immediately for £90; stock and fixtures worth double; present returns averaging £5; moderate rent; convenient dwelling-house; full particulars to bona fide purchasers only; relinquishing through family reasons. "Nessler" (244/32), Office of this Paper.

It pays to pay for advertising
in this Supplement.

KENT.—Small Business, within easy distance of London, doing over £300 under unqualified; good profits; scope for increase; big population; no opposition near; splendid opening for Dentistry, Optics, and Photography; price £70 or valuation. Apply, "Hop" (245/21), Office of this Paper.

LIVERPOOL.—A highly profitable Business in main thoroughfare, with two appointments attached; returns average £750; average prescriptions 3,200 yearly; very few patents; net profits about £200; shop fully stocked; an exceptionally good house; satisfactory reason for disposal; references required. "Select" (241/19), Office of this Paper.

LONDON, S.W.—Family Cash Business; main-road position; average turnover last 3 years £784; gross profit over 40 per cent.; lease 17 years unexpired; Photographic Studio; mahogany and plate-glass fitted shop, depth 23½ ft., 14 ft. wide, frontage 18 ft.; 4 bedrooms, 2 sitting, bath, etc.; side entrance; linoleums, cooking stove, and fittings, etc., inclusive, £450; fullest inquiries invited; cause of sale, proprietor's protracted illness; no agents. 245/20, Office of this Paper.

LONDON, S.E.—For immediate Disposal, a well-appointed Shop, with stock and fixtures worth well over £350, but, owing to illness of proprietor, must be sold; price to immediate purchaser, £185. For full particulars apply "Chemist," 61 High Road, Lee, S.E.

LONDON, W. (Suburb).—£865 returns; absolute net profit £222; Photo, Optics; Dispensing, General Retail; no credit; Store lines; commanding position; double-fronted, modern lock-up shop; plenty of room for increase (population 55,000); rent £45; principals only; references given and required; price for cash £575. 244/30, Office of this Paper.

LONDON, E.—Old-established Retail and Prescribing Business; in present hands 13 years; returns £400; very profitable; rent £27; great scope for increase; excellent opening for Dentistry; separate entrance and good garden; retirement cause of sale; price £150. 245/11, Office of this Paper.

WORCESTERSHIRE.—Drug Stores, unopposed; nice healthy village, close to town; rising population; returns last year £386; profits 40 per cent. under lady's management; good-class trade; rent 9s. 6d. clear; genuine chance for beginner, qualified or unqualified; price £55; stock to suit purchaser, at valuation. 238/10, Office of this Paper.

CHEMIST and Dentist; profitable Retail, Drug, Prescribing; double-fronted shop (all new); commanding position; light, airy rooms, shop, parlour; cultivated neat garden; rural surroundings; present hands 20 years; convenient locality; altogether a business and home seldom for sale; price £150. Address or call, Paul Strauge, 62 Brockley Rise, Houn Oak Park, S.E.

CHEMIST and Druggist; fashionable suburb of Liverpool, Cheshire side; established 35 years; low rent; modern house, every convenience; rising neighbourhood; satisfactory reasons for selling; price £350, or near offer considered. Particulars, in confidence, from John Brown & Co., 34 South John Street, Liverpool.

CHEMISTS.—Splendid Business for Disposal under exceptional circumstances; suit Chemist with fair knowledge of professional Photography; growing suburb; close to important College; price £300; no agents; every investigation courted; splendid prospects. W. H. Hughes, Railway Approach, Chiswick High Road, W.

EXCELLENT opportunity for acquiring a well-established Chemist's Business in a busy thoroughfare of South-East London; cash required £1,500. Apply, "Advance" (241/29), Office of this Paper.

GOOD country Business; over £2,000 returns; complete set books kept; full particulars sent when bank and personal references accompany application; going concern; genuine offer by established Chemist to cash buyer; strictly confidential. "M.P.S." (239/28), Office of this Paper.

OLD Family Retail and Dispensing; country town, Midlands; returns over £2,000; net profit £500; good house, shop, and premises; garden adjacent; same hands 40 years; rent £70. James Strachan, c/o British Drug Houses, Graham Street, N.

BUSINESSES FOR DISPOSAL

(continued.)

£60 will buy a small genuine Business; large town on South Coast; capable of great extension by competent man; excellent opportunity for unqualified man to carry it on as "Drug Stores"; stock and fittings worth double; good shop and house. Full particulars from "Urgent" (242/21), Office of this Paper.

PHOTOGRAPHY.—To Sell or Let (Dentist, Dispenser, etc., may add his business, as there is room), a fully-equipped Business, with every modern requisite; reception, show, dark, and framing rooms, large office, studio, good house in principal street; rent £35; let-offs more than pay rent. Wood, Castle Studio, Dudley.

BUSINESSES WANTED.

ADVERTISER requires a good-class Business; returns from £800 to £1,500. Full particulars, in confidence, to "O. B. P." (240/26), Office of this Paper.

ANY Pharmacist having a good London business, wishing to work in a good active Partner or successor, or would like to Dispose of his Business, which will fall into good hands, should submit full particulars at once; the investment should produce an income of from £300 to £400. Apply, 244/7, Office of this Paper.

WANTED, small Business in village or country town; must show a living and bear investigation; give full particulars in first letter to "Buyer" (240/1), Office of this Paper.

WANTED, small Light Retail Cash Business in London; working-class district preferred; please state full particulars, including lowest price for cash; or would accept Management with view to early succession. Replies, strictly confidential, to R. Vivian, 67 Sherriff Road, West Hampstead, N.W.

TO LET.

BEXHILL-ON-SEA.—Excellent opportunity presents itself for an enterprising man; good Shop to Let; complete Chemist's fittings and bottles; house above; situate in business thoroughfare; increasing populous district; low rent. Any further information can be obtained from Hicks & Co., Agents, 4 Sea Road, Bexhill.

BLACKPOOL.—To Let, spacious corner Shop, with well-lighted room behind and good cellar; centrally situated, commanding position in a main thoroughfare at the junction with other roads; many inquiries here for Chemist's shop, and these premises are exceptionally suitable; rent £55. Apply, A. Crompton, 16 Birley Street, Blackpool.

ERITH, KENT.—Chemist's Shop to Let, close to two large Iron-works, where thousands of men are engaged, surrounded by good-class customers; trams and electric light; main street; lease or agreement; rent £40 and taxes; no premium; well fitted; a reliable tenant can be helped. Apply owner, Smith, 140 Loughborough Road, Brixton, London, S.W.

CHEMIST.—Grand opening, Ramsgate, West Cliff; high-class district; double-fronted corner; plate-glass front and 8-roomed house; low rent; lease. "R., 31 Crescent Road, Ramsgate.

SHOP to Let; positively a good opening for a Chemist and Druggist; situated in a fast growing neighbourhood; no other Chemist in the road or near, and where same is much needed. Address, 86 Moyser Road, Streatham. Apply, H. Thorp, 42 Pretoria Road, Streatham.

TO CHEMISTS.—Finest opening in the suburbs; unopposed position; capital shop, with good house; rent £60, on lease. Apply on premises, The Promenade, Mill Hill, N.W., facing Midland Station, or C. Rawley, Cross & Co., 76a Chancery Lane, W.C.

TO Let, House and Shop, 7 Station Road, Brixton; a position particularly suitable for a Chemist; rental £70. Apply, Weston & Sons, 322 Brixton Road, S.W.

TO Let, Shop in Market Place, Coleford (Forest of Dean); rent £25; the town and district, which is Agricultural and Mining, comprise a population of about 5,000. Apply to the owner, Mr. David Morgan, Coleford, Glos.

TENDERS.

WEST HAM UNION.

THE Guardians invite TENDERS for the supply of (a) DRUGS, (b) SURGICAL DRESSINGS, (c) SURGICAL APPLIANCES; and (d) SURGICAL INSTRUMENTS during the period from April 1, 1910, to March 25, 1911. Samples of the Surgical Dressings may be seen upon application at the Infirmary, Whipps Cross Road, Leytonstone, N.E., between the hours of 10 and 4 daily.

Each tender must be on the specified form to be obtained after the 18th inst. on application, or which will be forwarded on receipt of a stamped addressed brief-sized envelope, and must be handed by contractors or their representatives to the Chairman of the Board; at the Board Room, at 11 A.M. on Thursday, the 31st instant.

The contractors whose tenders are accepted and with whom contracts are entered into will be required to pay the Trades Union rate of wages and observe the Trades Union regulations as recognised in the district.

The Guardians may require security for the due performance of the contract, and do not pledge themselves to accept the lowest or any tender.

By order of the Board,
THOMAS SMITH, Clerk.

Board Room, Union Road, Leytonstone, N.E.,
March 15, 1910.

WIGAN UNION.

THE Guardians of the Poor of the Wigan Union invite Tenders for the Supply of Drugs, etc., for a period of 12 months from April 1, 1910.

Forms of Tender containing the conditions of Contract and probable quantity of each article required, may be obtained at the Union Offices, 9 Victoria Buildings, King Street, Wigan, up to March 23, 1910.

Tenders and samples must be delivered to me, the undersigned, not later than 12 o'clock Noon on Saturday, March 26, 1910.

By order of the Board,
H. GORDON ACKERLEY, Clerk.

King Street, Wigan, March 8, 1910.

AGENCIES.

COMMERCIAL Traveller, with good English, Scottish, Welsh connection and intimate experience of requirements of Retail business, desires Agency for British, Colonial, American, or Continental Manufacturer; advertiser has proven ability to control office depot and conduct advertising and pioneer work for introduction of Speciality to trade, medical profession, and public. Replies, "Tactician," c/o May & Williams, Piccadilly, W.

PRICES and Samples of Collapsible Metal Tubes and Sprinkler Tops wanted, at once; also open for other special lines. "Manufacturers' Agent," c/o The "Canadian Druggist," 15 Toronto Street, Toronto, Canada.

TO Firms wishing to Develop a Veterinary Medicine Business Abroad.—Advertiser will soon be free to take an engagement; big experience of all kinds of Veterinary Medicines and Embrocations and the putting-up of same; interview London. 244/8, Office of this Paper.

£20.—Two valuable Agencies for Sale; regular journeys; very large connection; good income; recognised firm of repute; splendid chance for a young, energetic man to start travelling; advertiser giving up. 243/16, Office of this Paper.

PARTNERSHIPS.

ADVERTISER, with own Specialities, well known to farmers throughout the country, wishes to be joined by energetic, steady, working Partner, qualified or experienced in Cattle Medicines; small joint capital only required to extend with. Please give references with replies to 239/11, Office of this Paper.

WANTED, a situation for a qualified man to assist in or manage a business with view to purchase in a few months; cash at command £500, or more to be paid by mutual arrangement; London preferred; highest references. Apply, "Safety," c/o Evans Sons Lescher & Webb, Ltd., London, E.C.

APPRENTICESHIPS.

W. SPYVEE, Chemist, Sleaford, wishes to place his son as Apprentice in a good-class Family and Dispensing business, with opportunities for study; indoors; a comfortable home indispensable; age 18; tall; London not entertained; kindly note, communications not replied to within seven days respectfully declined.

WANTED, an Apprentice in good-class business; time allowed for study; small premium; 3 years' agreement. Apply, "S. S. H. E." (241/34), Office of this Paper.

SITUATIONS OPEN

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

REPLIES TO ADVERTISEMENTS may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

RETAIL.

BIRMINGHAM.—Junior wanted, with good experience in Dispensing; hours 9 to 8, Wednesday till 4, Saturday 10; outdoors; 25s. per week to commence. Apply, Bellamy Wakefield, Hagley Road Pharmacy, Edgbaston, Birmingham.



BURNHAM.—Junior or Improver; indoors; abstainer; accurate Dispenser and obliging Counterman; half-holiday weekly. Apply, stating lowest terms, Carpenter, Chemist, Burnham, Somerset.

CHELMSFORD.—A young unqualified Junior Assistant wanted, with good Dispensing experience; good-class country business; another assistant kept; half-holiday weekly and no Sunday duty. Apply, stating full particulars and salary required (outdoors), with references, enclosing photo (if convenient), to E. Bunn, Chemist, The Central Pharmacy, Chelmsford.

CLAYTON Hospital and Wakefield General Dispensary.—Wanted, a qualified Lady Dispenser, from April 17, 1910; non resident; salary commencing at £90 per annum. Applications, stating age, qualifications and experience, with copies of three recent testimonials, to be sent not later than noon on March 24, to the Hon. Secretary, Clayton Hospital, Wakefield.

GOLDAMING.—Qualified Assistant; outdoors; age about 24; accustomed to good-class Retail and Dispensing, with knowledge of Photography. State salary and usual particulars, photo if convenient. Apply, S. Edwards, Chemist.

HARROGATE.—Unqualified Assistant; accustomed to high-class Dispensing business; indoors. Apply, stating age, height, references, experience, and salary required, to A. B. Payton, Crown Pharmacy, Harrogate.

KENT.—Qualified Assistant wanted, with good references, for Drug-counter of old-established Stores about to be formed into limited company; must be thoroughly competent and well up in every branch of Retail business; no Sunday duty. State age and terms, 244/29, Office of this Paper.

LONDON, W.—Wanted, about April 5, an Assistant; good knowledge of Dispensing; indoors; about 22. Apply to Maitland, 10 Chester Place, Hyde Park Square, W.

LONDON, N. Evening employment; Sunday evenings and one evening a week from six o'clock; to take sole charge; knowledge of Photographic trade required. Apply by letter, with usual particulars, to Tabor & Cresswell, Pharmaceutical and Dispensing Chemists, 129 High Street, Kingsland, N.

LONDON, W. Dispenser (qualified) required for Drug Department. Apply personally, before 10.30 or after 5 o'clock, Messrs. Selfridge & Co., Ltd., 40 Somerset Street, W.

LONDON, N.—Senior Assistant, competent and accustomed to quick Light Dispensing and high-class Retail business; qualified preferred; one early evening and one half-day a week off; must be well recommended; indoors or outdoors. Apply, with full particulars, T. E. Savage, Crouch End, N.

LONDON, W. By April 1 or earlier, qualified indoor Assistant, with knowledge of Photography. Usual particulars and salary required to Barton Dell, 148 King Street, Hammersmith, W.

LONDON, N.—Wanted, at once, a smart, energetic, qualified, outdoor Junior; full particulars or personal interview; abstainer preferred. Harris, Cash Chemist, 78 East Road, City Road, N.

LONDON, N.W.—Unqualified Assistant wanted for high-class business; indoors; only one kept; age about 25; must be a reliable Dispenser and good Salesman. Apply by letter, giving full particulars, salary required, and enclose photo, "Pharmacist," c/o Messrs. Hearon, Squire & Francis, Ltd., 22-30 Graham Street, City Road, N.

LONDON, W.—Messrs. Savory & Moore, Lancaster Gate, require a qualified Senior Assistant, under 30, with first-class Dispensing and Counter experience; outdoors. Full particulars, including date when at liberty, with photo, the Manager.

LONDON, S.W.—Immediately, smart Junior for Dispensing business. Apply, by letter, stating salary, enclosing photo and references, to H. T. Eseritt, Pharmacist, Streatham, S.W.

LONDON, W.—Smart Assistant; outdoors; one speaking French and German preferred. Apply, between 10 and 1 o'clock, other times by appointment, 11 Shaftesbury Avenue, Piccadilly Circus, W.

LONDON, S.W.—Assistant wanted; capable Dispenser and good Counterman; previous West-End experience desirable. The Sloane Pharmacy, 19 King's Road, Sloane Square, S.W.

LONDON, N.W.—Wanted, by April 5, a gentlemanly Assistant with good experience, accustomed to a high-class Retail and Dispensing business; indoors. Kindly state all particulars and salary required to W. J. Dalby, 6 Canfield Gardens, Finchley Road, N.W.

MALVERN.—Indoor Assistant, for a good-class business; accustomed to Dispensing and having knowledge of Photography. Apply, giving age, height, salary required, and enclose photo, to W. H. Jones, Pharmaceutical Chemist.

MANCHESTER.—Qualified Branch Manager; young and energetic; prospects to good man; usual Manchester suburban hours; single-handed position; salary £2 10s.; state when at liberty; last two employers. 243/201, Office of this Paper.

PICCADILLY (near).—Smart, qualified gentleman required, at once, to take charge of new Branch; must be thoroughly experienced and steady. Apply, with full particulars and salary required (enclose photo), to Bailey, "Highfield," Eltham, Kent.

SOUTH AFRICA.—A Senior qualified Assistant required; salary £20 per month first year, £21 second, £22 third; three years' agreement; passage paid out; bedroom provided. Write, "E. B. R.," 10 Northumberland Avenue, Wanstead Park, London, E.

SOUTH AFRICA.—Qualified Assistant required, at once, for large town in Cape Colony; must have had high-class experience and be used to Optical trade (preferably with diploma); good writer and bookkeeper; age 22-28 (single); preference given to a total abstainer; second-class passage paid out; 3 years' agreement; salary first year £160, second year £180, third year £200 (free quarters provided). Further particulars concerning hours of attendance, etc., on application to "Export," C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, Great Eastern Street, E.C.

TAUNTON.—Unqualified Assistant wanted, about the middle of April (indoors). Apply, giving full particulars, to Gregory & Wrenn, Chemists, Taunton.

TORQUAY.—Qualified Assistant for Dispensing business; competent to take charge; outdoors; married preferred. Applicants please give full particulars of experience, state age and height, and, if possible, enclose photo, Fredk. March, 90 Belgrave Road, Torquay.

WEST INDIES.—Assistant (qualified) required by an old-established house in the West Indies; 3 years' agreement; salary £100, rising to £120, per annum; board and lodging free. Apply, giving age and particulars of previous experience, to 108/350, Office of this Paper.

ADVERTISER would like to meet with qualified middle-aged gentleman to take charge of small Dispensing and Retail business for a morning or afternoon weekly or so. "West Hampstead" (242/34), Office of this Paper.

WEST INDIES.—Assistant (unqualified) required by an old-established house in the West Indies; 3 years' agreement; salary £75, rising to £100 per annum; board and lodging free. Apply, giving age and particulars of previous experience, to 108/35, Office of this Paper.

CHARLES MIDGLEY, LTD., Manchester, require, immediately, a smart qualified Senior for head establishment; must have had first-class experience in all departments and be able to control staff; good salary and prospects to the right man; also a smart qualified Assistant as Branch Manager. Address, Mr. Merson, stating fully experience had and name salary expected. Applications not answered in four days are not entertained.

CHEMIST'S Assistant required; must hold Minor qualification and have some knowledge of Store business; no Sunday duty; hours 9 to 5.30, Saturdays to 2.30. Apply, by letter, stating age and salary required, to "Rhei," c/o Street's, 30 Cornhill, E.C.

CHEMIST.—Thoroughly capable qualified man required; accurate Dispenser; permanency; commencing salary about 50s. State age and fullest particulars of previous appointments to Manager, Junior Army and Navy Stores, Ltd., Aldershot.

JUNIOR Assistant wanted, age about 21, outdoors, for London Dispensing business. Apply, stating age and salary required, to "M" (109/13), Office of this Paper.

JUNIOR Assistant wanted for good-class business; knowledge of Photography essential; Extracting and Optics desirable; easy hours; half-holiday weekly; no Sunday duty. Apply by letter, giving full particulars and salary required (outdoors) to H. S. Adams, Pangbourne Pharmacy, Berks.

JUNIOR Assistant (21-24) required in a good-class Light Retail and Dispensing business; practical Photographic knowledge a necessity; please state particulars of experience and salary required (outdoors), enclose photo if possible; applications not answered in three days declined. L. H. Snow, 33 High Street, Marlow.

MANAGER, qualified, for Branch, doing Light Retail country business; knowledge of Photography essential; permanency to a suitable man; easy hours; weekly half-holiday; no Sunday or Bank Holiday duty. Apply, with full particulars, stating salary required, enclosing photo (if possible), Bates & Hunt, Wellington, Salop.

OUTDOOR Junior in country business; duties light, admitting of time for reading; good character essential. Please state age, experience, salary, when disengaged, with reference to present or last employer, Smith, Chemist, Coleford, Glos.

QUALIFIED Manager; used to working-class trade and neighbourhood; married; age between 30 and 40; no Sunday duty; light hours; abstainer preferred; live out; dinner and tea provided; N. L. district; comfortable berth to suitable man; one already engaged preferred. 244/40, Office of this Paper.

ROYAL INFIRMARY, MANCHESTER.—Wanted, at once, a Minor man, with experience in making the Pharmacopoeia Preparations in large and small quantities and to assist in Dispensing; age not over 30; hours 8.30 to 6 p.m.; salary £90. Apply, with copies of recent testimonials, to the General Superintendent.

UNQUALIFIED Assistant wanted, March 29. State age, height, salary required, enclose photo and references; abstainer preferred. Erskine, Chemist, Berwick-on-Tweed.

WANTED, a smart Assistant, suitable for Cash business; good window-dresser; reliable and abstainer. Apply, with photo and full particulars, to Griffiths, Chemist, Droylsden.

WANTED, an Assistant, about 23 to 25, qualified, for Dispensing business; London or South Coast experience preferred. State salary (indoors), experience, and full particulars, 242/38, Office of this Paper.

WANTED, a competent Assistant for the Retail Counter; outdoors. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

WANTED, Junior, for suburban and country business; abstainer; knowledge of Photography desirable; progressive charge to tactful, energetic man. Full particulars, salary, photo, to "Near London" (243/11), Office of this Paper.

WANTED, for a large Retail business, a competent, qualified Assistant; outdoors; must be a good worker and able to take charge during the absence of the principal; salary offered for commencement £3 per week; references need not be given in first letter, but otherwise fullest particulars are required. Apply, 241/38, Office of this Paper.

WANTED, Branch Manager (with view to purchase preferred) for business near Nottingham. Smith, Chemist, Beeston, Notts.

WANTED, after Easter, smart young qualified Assistant, as First Counterman, for high-class West-End Store Chemists; must be good salesman and of good appearance. Write, "Audley" (245/19), Office of this Paper.

WORKING Manager and Director; qualified; used to Mixed country and small Wholesale and acquainted with packing up Stock. Age, experience, and full particulars to "Omnium" (245/13), Office of this Paper.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK *Mar 12, 1910*

NATURE OF ADVT.	REPLIES
ASSISTANT	25
" Unqual	19
REPRESENTATIVES	19
QUAL. ASSISTANT	17
"	15
REPRESENTATIVES	15

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

WHOLESALE.

LONDON.—Smart and efficient Granulator wanted for Compressed-tablet Department. State age, experience, and wages required, 244/6, Office of this Paper.

NORTH.—Wanted, a man, experienced in the making and putting-up of Chemists' Specialities; must have had Wholesale experience, and preference given to one who can handle Drugs, Wet and Dry. State age and salary required, 242/19, Office of this Paper.

SOUTH AFRICA.—Representative, having already some substantial and allied agencies, wanted by Export Druggists; knowledge of country indispensable. Apply, with full particulars, to 94/67, Office of this Paper.

A LONDON firm of Pill Manufacturers require the services of a qualified Chemist. Write, stating salary required and experience, to "Pills" (240/37), Office of this Paper.

A VACANCY occurs in a firm of Manufacturing Chemists for an experienced Representative; accustomed to introducing Pharmaceutical Specialities to the Medical profession; must be of good appearance and have sound knowledge of Therapeutics and of the trade. Apply, stating age, qualifications, experience, and salary required, to "G. S." (237/28), Office of this Paper.

AGENTS or Representatives wanted for districts North of London and Ireland for one or two quick-selling Side-lines. Chemists' and General trade; samples only few ounces in weight; 10 per cent. commission. Apply, 244/13, Office of this Paper.

CHEMIST.—Thoroughly competent working Chemist required, with knowledge of machinery; must know Spanish. Write, Burtou, Baker & Co., 16 Eastcheap, E.C.

FRENCH-SPEAKING Pharmacist wanted by a firm issuing high-class Pharmaceutical Preparations, to travel as their Representative on the Continent; the position offers considerable scope for an energetic young man of good business ability; preference will be given to a candidate who has had previous Continental experience. Apply, with full particulars of age, previous experience, salary required, etc., etc., to "Pharmacist" (110/540), Office of this Paper.

JUNIOR Ledger Clerk wanted; Wright's coal-tar soap. Apply, Wright, Layman & Umney, Ltd., 48 Southwark Street, London, S.E.

LABORATORY Porter.—Strong young man used to the work of a Wholesale Druggists' Laboratory; previous experience in similar capacity indispensable. T. Hodgkinson, Prestons & King, 81 Bishopsgate Street Without.

PHARMACIST.—Required, young Pharmacist in Advertisement Department of large Wholesale firm; must be an accurate, careful worker, with ability to concentrate attention on details. Give full details as to age, salary, and experience to "A. P." (110/54), Office of this Paper.

QUALIFIED Chemist, age about 24, English, with some knowledge of Italian, wanted by English firm of Wholesale Chemists established in Italy; applicant should have had a thorough business training and some experience of keeping a varied stock; must be a good organiser and accustomed to direct the work of a small staff. Apply, with full particulars, including salary required, to "C. Q." (110/504), Office of this Paper.

PARTNERSHIP.—An exceptional opportunity of entering one of the best-established high-class houses in the trade; capital required not less than £5,000; preference given to an efficient, energetic, qualified gentleman, not more than 35 years of age. Apply, in first instance, by letter, with full particulars and experience, to "H.," c/o J. H. Smith, Solicitor, 20 Finsbury Square, E.C.

TRAVELLERS (London and country) wanted, to take up Loofah articles on commission basis; excellent novelties. Apply by letter, Morrison, 4 Domingo Street, Old Street, London, E.C.

WANTED. smart Traveller with a live connection among Chemists, to sell a popular and increasing Side-line on commission; liberal terms to the right man. Apply to 109/21, Office of this Paper.

SITUATIONS WANTED

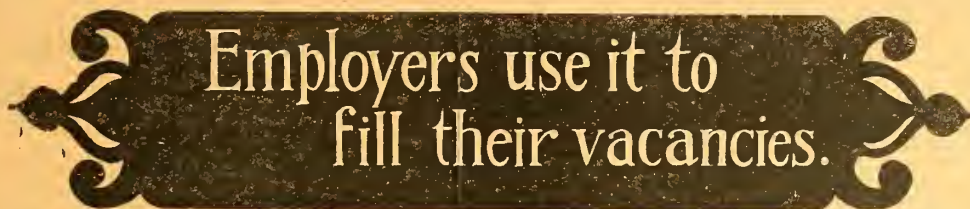
(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

CONTINENT.—English Assistant; 26; qualified; good experience and references. "Pharmacist," c/o Smyth, 11 Rue S. Michel, Menton.

QUALIFIED (30), single, experienced, wants berth abroad. "Pharmacist" 2 Atney Road, Putney.



SITUATIONS WANTED

[HOME] RETAIL.

QUALIFIED; outdoors; over 30; good class. "L.," 84 Huntley Street, W.C.

JUNIOR or Improver; 5 years' experience. Ernest Wood, 110 High Street, Bloxwich.

ASSISTANT; 28; 5 ft. 10 in.; abstainer; good references. Harris, Woodgate, Uttoxeter, Staffs.

EVENINGS, one or more per week; qualified. "W. G.," 25 Gertrude Street, W. Brompton, S.W.

ASSISTANT; unqualified; 32; disengaged; 25s. weekly. "J. K.," 46 St. Peters Street, Islington, N.

LOCUM; qualified, reliable, young; disengaged April 12. Parker, 98 Earle Street, Ashton-under-Lyne.

ASSISTANT; 22; good references; time for study preferred. R. Webber, "Rose Bank," Westbury Road, Bristol.

JUNIOR Assistant (age 22), 4½ years' experience, good Dispenser, desires engagement. 239/31, Office of this Paper.

JUNIOR; 19; good references; shortly disengaged. "Rhei," c/o Mrs. Gordon, Cressenor Terrace, St. Neots, Hunts.

UNQUALIFIED; 33; tall; good London experience; permanency; disengaged. "S. J.," 8 Burney Street, Greenwich.

MANAGER or Senior; qualified; 29; 5 years last situation; first-class experience. Jones, Cadivor, Llanon, Aberystwyth.

EXPERIENCED Dispenser, Counterman, Prescriber; tall; gentlemanly appearance; 40. "G.," 66 Hughs Road, Anerley, S.E.

LOCUM; experienced; liberty Easter onward; Stocktaking speciality; moderate terms. Cook, Pharmacist, Cleethorpes.

LONDON.—Locum; excellent references; good Prescriber; Photographic experience; disengaged. Apply, 237/30, Office of this Paper.

ASSISTANT (25) seeks situation; seaside preferred; West-End Dispensing experience; good Photographer. 238/63, Office of this Paper.

CAPABLE man seeks situation; used to large Stores trade; town and country orders. "R. T.," 11 Chipstead Street, Parsons Green, S.W.

DISPENSER (lady) seeks post. Apothecaries' Hall certificate. Experienced. Can keep books. Address McGregor, College of Pharmacy, Leeds.

NOTTINGHAM DISTRICT.—As Assistant or Manager; 26; unqualified; experienced and reliable. "Zox," 48 Lees Hill Street, Nottingham.

ASSISTANT (25), unqualified, experienced Dispenser, desires engagement in good-class Dispensing business; disengaged. 238/36, Office of this Paper.

QUALIFIED (24) requires situation as Dispenser; assist with Counter; good-class Dispensing business; London preferred. 239/36, Office of this Paper.

JUNIOR; 23; all-round experience; Extractor, where all-round Dentistry can be learnt, or will be taught; North or Midlands. Price, Fountain Lane, Soham.

MANAGER or Senior; qualified; 30; tall; first-rate experience; married; would live on premises; country preferred. "W.," 126 Chorley New Road, Horwich.

MINOR student seeks evening employment for board, lodging; 23; 5 years' experience; Doctor or Pharmacist; London. "D.," 79 Llanthewy Road, Newport, Mon.

SITUATIONS WANTED (continued).

QUALIFIED Manager or Locum; experienced, reliable. "W.,"
81 Victoria Street, S.W.

MANAGER; qualified; middle-aged; active; abstainer. Shilton,
8 Montpelier Street, Brighton.

QUALIFIED; 26; tall; all-round experience; disengaged. John
son, 36 Large's Street, Derby.

PHARMACIST; age 45; disengaged April 12; permanency pre-
ferred. 242/39, Office of this paper.

DISENGAGED; unqualified; several years' experience. R. M.
Lelean, 2 Rockville, Hautville, Guernsey.

LOCUM; qualified; excellent references; disengaged. "Caius,"
21a Castletown Road, West Kensington.

QUALIFIED Assistant; age about 23; outdoors. Dyson & Co.
35 Gloucester Road, South Kensington.

DISPENSER (girl), qualified, desires post in town; modest re-
muneration. 242/1, Office of this Paper.

WANTED, situation; good Dispenser; experienced; reliable and
abstainer. 240/34, Office of this Paper.

WELL experienced; disengaged after Easter; outdoors; quali-
fied. "Florys," 161 Fulham Road, S.W.

MANAGER or Senior; qualified; 32; good references; disen-
gaged. "Bach," Blithfield, New Malden.

IMPROVER; 20; 3½ years' Dispensing experience; good references.
Ostle, 201 Linthorpe Road, Middlesbrough.

DISENGAGED; unqualified; 38; 16 years in London; good varied
experience. Fletcher, 95 Church Street, Whitby.

LADY Dispenser; qualified; Locum; Hospital and Surgery ex-
perience. "L.,," 76 Bedford Road, Ilford, Essex.

JUNIOR (20) requires part-time engagement; evenings preferred;
London. "D. G. C." (242/15), Office of this Paper.

ASSISTANT; 28; Dispenser; energetic; highest references; out-
doors. Webb, 89 London Road, St. Leonards-on-Sea.

IMPROVER; small salary to start; good salesman, Stockkeeper;
North preferred. "Reta" (243/3), Office of this Paper.

QUALIFIED, as Assistant or Locum; first-class Dispensing ex-
perience; age 27. Address, 241/3, Office of this Paper.

19; Junior or Improver requires situation Dispensing business;
April 4. Carroll, 171 Woodchurch Road, Birkenhead.

ASSISTANT; varied experience; unqualified; good references;
tall; abstainer. J. Thomas, 48 Victoria Street, Paignton.

ASSISTANT; City or West End Store experience; age 28; Photo-
graphic Medalist. "Iridin" (242/2), Office of this Paper.

EXPERIENCED Counterman, Dispenser, Window-dresser, Stock;
34; unqualified. Field, 47 Weltje Road, Hammersmith, W.

ASSISTANT; unqualified; 34; outdoors; 10 years in present
situation. Forbes, 26 Shropshire Street, Market Drayton.

MANAGER; middle-aged; active; town and country experience;
permanency desired. "M.P.S." (240/38), Office of this Paper.

QUALIFIED Assistant, quick Dispenser, Photography, outdoors,
as Senior or Manager. "Energetic" (242/12), Office of this
Paper.

MANAGER; middle-aged; London experience in first-class Phar-
macies; excellent references; disengaged. 242/26, Office of this
Paper.

LOCUM or Part-time; fully-qualified, practised Dispenser; lady
Hospital or Surgery. "Hospital" (242/33), Office of this
Paper.

UNQUALIFIED; 24; good experience; Counter, Dispensing
Photograph, and Window-dressing. Lyon, 4 Adelaide Square,
Bedford.

DISENGAGED; Assistant or Manager; unqualified; Locum; per-
manency; references. Apply, Ellis, 1 Langstone Road
Portsmouth.

QUALIFIED Chemist and Surgeon-Dentist; disengaged; mode-
rate salary; good Prescriber, etc.; single. "Manager,"
61 Hook Road, Epsom.

MANAGER or Locum; London or suburbs. "A. M.," 39 Theo-
bald's Road, Leyton, E.

LONDON District. Part of whole time; qualified. "W.,"
18 Browning Road, Worthing.

LOCUM, emergency; good all-round experience; West of England
preferred. 244/23, Office of this Paper.

RELIEF duty; half-a-day a week or one evening a week; good
references. "Chemist," 40 Camden Street, N.W.

UNQUALIFIED; 19 years' London and country experience.
"Chemicus," 35 Crescent Grove, Clapham Common.

QUALIFIED Manager or Locum; experienced; London or near
preferred. "A.," Baiss Bros., Ltd., 4 Jewry Street, E.C.

PORTER; assist Counter, Dispensing, Stock, Photography.
"Energetic," 185a Pelham Street Buildings, Mile End.

ASSISTANT; willing and obliging; able to take charge; un-
qualified; 30. "W.," 25 Fleeming Road, Walthamstow.

MANAGER; qualified; 30; married; good all-round experience;
disengaged. "Reliable," 82 Gilbey Road, Tooting, S.W.

LOCUM Assistant; excellent references; moderate salary; ef-
ficient; sine dip; outdoors. "B.," 10 Alfred Road, Stratford.

LADY Assistant, Part-time; excellent testimonials; Chemist or
Doctor; London or suburbs. "Cazilab" (244/20), Office of this
Paper.

YOUNG lady requires situation; used to Putting-up Chemists'
Sundries; disengaged April 2. Address, 245/12, Office of this
Paper.

QUALIFIED; Whole, Partial, or Locum; excellent testimonials;
thoroughly trustworthy; outdoors; London. 245/1, Office of
this Paper.

HOSPITAL, Institutions; Locum; Dispenser; reliable; mid-age;
experience; Registered Chemist. "M.P.S.," 31 Cambridge
Road, Sidcup, S.E.

LOCUM; permanency preferred; age 46; Hall; disengaged; active;
good experience; town or country; abstainer; in or outdoors.
Watson, 164 Powis Street, Woolwich.

QUALIFIED requires position Manager; married; experienced;
London; Photography, Optics; prospects of interest. "As-
pirin" (243/39), Office of this Paper.

ASSISTANT; 7 years' good Dispensing and Photographic ex-
perience; disengaged April 16. W. J. Parr, c/o T. H. Foden,
Pharmacist, King's Heath, near Birmingham.

LOCUM, Relief, or Part-time; student; 28; wide experience;
tall, gentlemanly; capability, loyalty, and integrity unques-
tioned. Oakley, 14 Canonbury Square, London, N.

LOCUM Tenens, emergency, or Management; 30 years' wide
experience, all grades; Easter and afterwards; qualified.
"Chemist," 79 Chorley Road, Swinton, Manchester.

ASSISTANT; French; speaking fairly good English; unqualified;
29; 10 years' experience; unmarried; moderate hours; good
references. André Curie, 5 Haringey Park, Crouch End, N.

EVENINGS after 5; expert Dispenser, good Counterman; long
experience in evening part-time work; highest references;
qualified; reliable. "Euclid," 26 Wontner Road, Balham.

SENIOR Assistant or Manager; qualified; town and country ex-
perience; could introduce Dentistry; good Operator and
Mechanic; age 46; height 5 ft. 11 in. 245/15, Office of this Paper.

UNQUALIFIED; 25; 10 years' experience; Dispensing, Counter;
April 1; abstainer; outdoors; London preferred; 4½ years
last situation. "J. D.," 19 Walliscote Road, Weston-super-Mare.

POST required as Dispenser, Surgery Assistant; outdoors; full
curriculum; experienced, reliable, and trustworthy; good refer-
ence from present principal. Apply, 241/23, Office of this Paper.

MANAGER or Locum; experienced Buyer, Prescriber, and Ex-
tractor (own instruments); disengaged 21st inst. Mr. Watson,
Registered Chemist and Dentist, 851 Ashton Old Road, Manchester.

AT liberty after Easter; smart unqualified Assistant; highest
references; abstainer; single; reliable and quick Dispenser;
good Salesman. "Photo," 63 Stephen's Road, Tunbridge Wells,
Kent.

LOCUM; qualified; 33; disengaged; steady; strict abstainer. Williams, Elms, Pyle, Glam.

LOCUM; qualified; under 30; first-class experience. "Chemist," 52 Lonsdale Street, Accrington.

LOCUM for Doctor's Dispensing, Easter week. State terms, etc., "Statim," 95 Cecil Road, Northampton.

QUALIFIED (26), experienced, seeks permanency. Callao, 50 Sunlight Street, Belmont Road, Liverpool.

UNQUALIFIED; 33; reliable Dispenser and photography; references. Morris, 19 Hotspur Street, Shrewsbury.

JUNIOR or Improver requires berth; 4 years' experience; age 19. Apply, Westley, 68 Victoria Park, Cambridge.

JUNIOR (19½) requires situation, Manchester; highest references. Apply, Richardson, Pharmacist, Hadfield, Manchester.

LOCUM or permanency; 22; excellent references; reliable; abstainer. "Pharmacist," 82 Underwood Lane, Crewe.

IMMEDIATE.—Assistant or Branch Manager; excellent references; competent. "B.," 155 Offord Road, Barnsbury, N.

LADY Dispenser and Bookkeeper; Hall certificate; experienced; Doctor or Institution. "Dispenser," 52 Elgin Avenue, Maida Vale, W.

PHARMACIST, successfully disposed own business, seeks engagement; country preferred; qualified; 36; married. 243/12, Office of this Paper.

UNQUALIFIED; 38; good references; Counter, Prescriber, Dispenser, Extractor; 23 years' experience; disengaged April. "G.," 2a Highfield Road, Dartford, Kent.

AS Junior Assistant in high-class Dispensing business; aged 20; good appearance and address; London or South Coast preferred. H. F. Stapley, 9 Howard Road, Southampton.

ASSISTANT; 27; West-End experience, French speaking too; accurate Dispenser, smart Counterman; excellent references. "G. C.," 44 Guilford Street, Russell Square, W.C.

LONDON.—Part-time or Relief; 22½; tall; abstainer; 7 years' good all-round experiences and references; 16 months suburb. "Assistant," 82 Church Street, Stoke Newington, N.

JUNIOR, 5½ years' experience, requires situation in high-class business; London preferred; Photography, window-dressing; terms moderate. "Essex," 240/4, Office of this Paper.

AS Assistant, with time for study; thoroughly well up in the business; good Dispenser and at Counter; excellent references. "C. E. F.," 91 Hammersmith Road, West Kensington, W.

UNQUALIFIED; middle-aged, competent, trustworthy; good Dispenser and experience; Prescriber, Photography, Optics; town or country; sound references. 239/27, Office of this Paper.

BRANCH Manager; 31; qualified; married; abstainer; tall; undeniable references; all-round experience; Photography; country or sea preferred. "Chemist," 19 Albion Road, Lewisham, S.E.

ASSISTANT; unqualified; good all-round experience; expert Dental Operator and Fitter; 36; married; abstainer; view to succession entertained. "H. A.," c/o Mr. Henrie, 129 Penarth Road, Cardiff.

MANAGER or Assistant; Locum or permanent; disengaged; 39; abstainer; 5 ft. 6 in.; Salesman, Prescriber, Extractor, window-dresser; moderate salary. Smith, c/o Weston, Blackfordby, Burton-on-Trent.

For 1/- assistants get good berths.

QUALIFIED Manager or Assistant; experienced Dispensing, Prescribing, Photography, Extract; 35; married; disengaged. Furber, Warner Cottage, Combe Down, Bath.

WOMAN Dispenser; 25; Hall; first class hospital experience as head; served apprenticeship Counter; good Saleswoman. 243/21, Office of this Paper.

BRANCH Manager; Midlands preferred; General and Agricultural experience; thorough Prescriber, Extractor, and Mechanician; Photographic knowledge. Sumner, Chemist, Gloucester.

DISPENSER (qualified), young lady, seeks post Doctor, Chemist; experienced; Bookkeeping, Bandaging, General Surgery routine; disengaged; live in or out. "S.," 25 Bessborough Street, Victoria, S.W.

DISENGAGED next Monday; Assistant; 29; single; abstainer; thoroughly competent in Dispensing, smart Counterman; Photography; highest references. "Optics," 36 Alexandra Road, St. Leonards-on-Sea.

QUALIFIED Surgery Dispenser (32), gentlemanly, trustworthy, excellent Prescriber, desires Retail Counter experience for nominal salary; 15s. indoor, 25s. outdoor; medical references. "W.," 80 Tithebarn Street, Liverpool.

SMART unqualified Assistant, 6 ft. (27 years old), good Salesman and Window-dresser, Store experience, desires engagement Midlands or North of England; good references. "H.," c/o R. Slowé, Kimbolton, Hunts.

LONDON.—Gentleman, qualified, married (39), seeks position as Manager, large Store Shop, or General Manager to firm with several shops; unique experience and clean record. Address, "Competent" (240/35), Office of this Paper.

UNQUALIFIED, active, reliable Assistant disengaged; good worker and all-round experience; excellent references; moderate salary; abstainer; middle-aged; single. "Ferrum," 20 Chapel Street, Uxbridge, W.

WHOLESALE.

ADVERTISER; 33; 18 years' practical experience, Wets, Dries, etc. Taylor, Rosemont, Pudsey.

GENTLEMAN desires situation as Traveller; good appearance, smart. "Chemist," 57 Florence Road, Hornsey, N.

WAREHOUSEMAN; 27; used to Druggist Sundries and Packing Export Perfumeries. 244/8, Office of this Paper.

SITUATION required, Wholesale, London; Sundries, Surgical Requisites, Drugs. "W.," 123 Saltram Crescent, Paddington.

PHARMACIST, Medical and Laboratory experience, seeks situation; good appearance and address. 240/7, Office of this Paper.

CAPABLE, young business man desires berth as Representative; good appearance; energetic; well spoken. 239/33, Office of this Paper.

ESSENCES, Fruit, and Soluble Floral Ottos, Maker, desires appointment; thoroughly experienced. 244/36, Office of this Paper.

ADVERTISEMENT Writer, Chemist, experienced, desires position, Publication Department. Rose, 11 Duckett Road, Harringay, N.

TABLET-MAKER; 27; 5 years with well-known firm; thoroughly practical; good organiser; sound knowledge of trade. 238/32, Office of this Paper.

SITUATIONS WANTED (continued).

14 Years Wholesale, Retail, Stores, being out of business for a time, would give services free for month. "H. N.," 41 Millman Street, London, W.C.

GENTLEMAN, recently qualified, desires subordinate position; would invest capital in sound concern; smart and competent. "M.P.S.," Victoria Pharmacy, Brightlingsea.

YOUNG man (22), energetic, willing, capable, sound knowledge Practical Chemistry, 4 years in Experimental Laboratory, seeks engagement. 236/11, Office of this Paper.

WORKS Chemist or Manager; 15 years' London and Provincial Wholesale experience; could equip Laboratories home or abroad. "Chemist," 14, Stirling Road, Birmingham.

TRAVELLER seeks engagement, Surgical or Allied trades; would Represent good house on commission only, or sound Side-lines entertained. "Energetic" (245/14), Office of this Paper.

CLERK; 29; capable; 13 years' experience. Wholesale Chemists and Druggists and Druggists' Sundries, Invoicing and General Office routine; good references. 240/12, Office of this Paper.

SMART, businesslike gentleman (25), capable, of good address, with 9 years' high-class Retail experience, desires position with Wholesale Sundry firm. "Energetic" (239/13), Office of this Paper.

ADVERTISER (age 24), good address, tall, energetic, possessing commercial instinct, desires responsible position, preferably as Representative; 7½ years' Retail experience. "Progress" (243/14), Office of this Paper.

CHEMIST, qualified, seeks situation in Wholesale Laboratory; 20 years' Manufacturing experience in good houses; accurate Standardiser, good organiser; can control men; good references; at present in situation, but desires change. 239/12, Office of this Paper.

EXPERIENCED Representative seeks re-engagement; 18 years' sound, valuable connection, North of England and Scotland; reasons for change and all details freely given; Sundries, Perfumery, or special lines exploited well. "Muta" (241/31), Office of this Paper.

WHAT?—Gentlemanly Representative desires permanent engagement with well-known and progressive house only (General, Drugs, etc.); satisfactory results and fidelity guaranteed; thoroughly competent and experienced; substantial connection (provinces); excellent credentials. Write fully, "Pharmacist" (241/33), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—200 Baku Oil, 4s. 3d.; 30 Brunner Mond, £5 6s. 3d.; 70 Ilford Preference, 17s.; 110 G. B. Kent Preference, 18s.; 200 A. J. White Ordinary, 2s. 3d., 200 Preference, 10s. 9d.

WANTED (subject).—Camwal Debentures, 31½; £300 Idris Debenture, £62 2s. 6d.; 100 Allenbury "A" Preference, 23s. x.d.; 500 A. J. White Ordinary, 1s. 10½d.; 250 Preference, 10s. 1½d.; 100 Wright, Layman Preference, 21s. 6d., c.d.

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

PLATE-GLASS Shelves, Window-fittings, Carboys, Counters, Drug-fittings, Dispensing-screens, Wall-cases; second-hand; send for list; cheapest house for high-class fittings; complete Chemist fitters; estimates and designs free; men sent to all parts. TREBLE & CO., Shop-front Builders, Ringwood Road, Walthamstow, London.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND). — Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogue and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

SUCCESS DURING 1910.—Follow our advice month by month as given in "Business Building," 2s. 6d. yearly (specimen post free); ready made advertisements for all your Specialities; 2s. 6d. subscription will save you pounds; push your own Proprietary articles; we will tell you the way. B. Whitworth Hird, Ltd., Advertising Specialists, Norwich.

THE GREATEST SUCCESS

I have succeeded, in a small business, in increasing the returns from £19 per week to £50 in 15 months. My average increase for each business is a little more than £5 per week as regards returns. The usual cost for securing this increase is only £20 per year which includes my modest fee. The expense is of course spread over the whole of that period and is for businesses doing about £1,000 a year, but for smaller businesses less money to ensure the increase mentioned in the booklet has to be spent. Why not increase your own business. Booklet free on receipt of postcard. Send to-day.

*Burnakoslack, 9 King St.
Tel. No 581. Wolverhampton.*

FOLDING BOXES.

Chemists desirous of purchasing **CARTON BOXES** for bottles, soap tablets, foods; **Labels, Envelopes, Wrappers, Lists, &c.**, should peruse our advertisement on **Page 35 of THE CHEMISTS' & DRUGGISTS' DIARY, 1910.**

GEORGE BLACK & CO., Printers, Duke St. Lane, EDINBURGH.

COMPLETE FITTINGS (SECOND-HAND).—In first-class condition and ready to be sent off on receipt of order: 16-ft. Drug-fitting, 12-ft. piano-fronted wall-case, 12-ft. Serving-counter, 7-ft. Dispensing-screen, 6-ft. bent Counter-case, Perfume-case and desk, 2 nests Counter-drawers; 80 guineas complete. PHILIP JOSEPHS, 93 Old Street, London, E.C.

WANTED, AUSTRALIAN KINO from Eucalyptus rostrata or any other kind of Eucalyptus, chiefly of orange-brown colour soluble in water or alcohol; large quantities required. Please address; with samples, in first instance, "Z. G. 674," care of Rudolf Mosse, St. Gallen, Switzerland.

"THERE IS MONEY IN IT."

That is what a Pharmacist wrote last week, re an idea for a new Specialty I sent him. Put up more Specialities of your own, make them and other things yourself; that is one of the points in my system. Booklet "How to Increase Your Business" which explains fully my system; what it will do for you; and what it has done for others, sent post free on application to Pharmacists only.

J. R. B. ALLISON, Pharmacist and Business Specialist, RETFORD.

SECOND-HAND Chemists' Shop, and Office Fittings for Sale; condition as new. Congdon & Son, 77 Clerkenwell Road.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect RUDDUCK & CO., 262 OLD STREET, E.C.

GUMMED PRICE TICKETS

Crimson ground, white figures. Stocked in all usual prices up to 21/-, each price banded separately in hundreds. The Midget, 9d. per 1,000. The Magnum, 1/6 assorted 10 prices. Full illustrated list of Blanks for use with these tickets free on application.

1/3

10^d

DUNLEY & CO., Ticket Writers & Printers, Holloway, London

Exchange Column—Bargains.

FOR DISPOSAL.

APPARATUS.

TWO pill-machines, 2 and 5 grs., Maw's, marble slab, good as new; what offers? "W." 65 Hampstead Road, N.W.

FOR sale, Oertling's balance, No. 2, in good condition, with divided beam for rider and short pan for S.G.; £2 12s.; wholesale price £6 6s. WRIE & Co., Southampton.

BOOKS AND PERIODICALS.

"P.H.J." posted direct, "C. & D." Saturday morning. Offers, 99 Cambridge Street, Victoria, S.W.

OBSTETRICS, Cazeaux and Tarnier, in new condition; cost 37s. 6d.; accept 25s., or nearest offer. GEORGE FITZPATRICK, Hunfield Plain, Durham.

TO Major and Minor Students.—A number of second-hand textbooks; good condition; cheap; list on application. Mr. PREECE, Hitcham, Ipswich.

REALLY good set Minor books and apparatus; 160 C. & D.'s, including 1908 and 1909; 15 *Diaries*; "Year Book Pharmacy." 1870-2, 1878-86; best offers in cash, "Medical Annuals," 1907-10, or latest Squire; "Pharm. Formulas." Stamp for replies. 82 Oak Street, Southport.

SHOP FITTINGS.

WHAT OFFERS?—Counter-scales, French pattern, 2 lb.; May, Roberts' list, fig. 3; also dispensing-scales, similar to fig. 5. SCOWBY, Chemist, Burnham-on-Crouch.

TWO large pear-shaped carboys, cut stoppers and stands; 1 large finely decorated specie-jar on mahogany base; 2 doz. glass specie-jars, labelled, gilt-metal cups; a small fireproof deed-box; any offer accepted; seen by appointment. BUTTERFIELD, 13 Hereford Road, W.

A BEAUTIFUL specie-jar, 24 in. in height, on mahogany stand; 6 doz. shop-rounds, assorted; traveller's medicine-chest, leather; 24 bottles, scales, fittings, etc.; 30s. the lot, or best offer; or would exchange for anything pertaining to dentistry; a good boiler preferred. WHITE DALMAIN, 9 Pimlico Walk, Hoxton, N.

RARE opportunity through ill-health, 4 carboys, 1 nest drawers, locker (8 ft.), suitable for stock, 30 small and 6 large over shelving, N. and W.M. stpd. rounds, vary from 60 oz. to 5 oz., about 22 doz. labels (worn), $\frac{1}{2}$ doz. 32-oz. engraved acid bottles, 2 40-oz. glass cap oil-bottles; a lot of odd drugs, parcels and in the rounds; a buyer with £11 or £12 would secure the lot; train to Plumstead, S.E. Ry. and tram-car. "S." 18 Bostall Hill Plumstead, Woolwich.

Yes, it pays to pay for
a "C & D" Ad.

DENTAL.

DENTAL chair (iron); 7 guineas; cheap. BROOKE, 34 Trinity Street, Boston.

POLISHED-WOOD case, 12 dental forceps and accessories, all London made; condition perfect; bargain £1 15s. MORTIMER, 73 Stockwell Park Road, S.W.

DRUGS AND CHEMICALS.

WHAT offers for 6 W. qts. ol. lavand., Aug. 1900 (guaranteed)? 242/25, Office of this Paper.

ONE 25-gal. barrel Allen & Hanburys' cod-liver oil, perfect condition; first cheque for 68s. secures this. HARRISON, Chemist, Reading.

BEST cash offer.—Overstocked.—3 lbs. bismuth subnit., 1 lb. chloral hydrate, 3 oz. bismuth salicyl., 8 oz. bromidia (Battle), 1 lb. sang. draconis pulv., $\frac{1}{2}$ lb. cort. cinchonæ rub., $\frac{1}{2}$ lb. gum myrrh, 1 lb. pulv. gum myrrh. KINGSTON, Chemist, Kildare.

FORMULÆ.

FORMULA for sale, black-boot polishes. FRANCE, 42 Vartry Road, London, N.

LIQUID plate-polish for silver, etc.; a profitable speciality; cost 3d.; pint 1s. post free. "CHEMIST," 21 Murdock Road, Handsworth, Staffs.

OPTICAL AND PHOTOGRAPHIC.

QUARTER-PLATE camera, R.R. lens, 2 double slides, tripod case, dishes etc.; as new; 28s. 6d. GRAHAM, West Street, Wigton, Cumberland.

PROPRIETARY ARTICLES.

OVERSTOCKED.—Lime-juice and sulphur tablets, 14 lb., carriage paid, 5s. 6d. 241/22, Office of this Paper.

WHAT offers? 1 cwt. glycerine, 1260; 12 2s. Chapman's cattle-oils; 5 2s. 6d. Chapman's cattle-oils; 2 doz. Woolley's lung-and chest tonic No. 55. 241/25, Office of this Paper.

OFFERS.—12 2s. 3d., 12 4s. 6d. D.D.D.; 2 1s. D.D.D. soap; 18 1s. 1 $\frac{1}{2}$ d. Oquit; 6 2s. 9d. Figuroids, 12 1s. Bersit shaving cream; 2 4s., 4 1s. 1 $\frac{1}{2}$ d. Shano; 48 1s. Larola; 4 1s. 3d. Icilmine; cleau. 132 Melton Road, Leicester.

SHARES.

SHARES for Sale. See page xxiii.

MISCELLANEOUS.

WHAT OFFERS?—21 40-oz., 35 20-oz., and 18 10-oz. shop-rounds; also B.P., new condition; list of labels on application. SNELL, Chemist, Accrington.

DISPENSING-SCREEN, length 6 ft., height 2 ft. (by Treble), four doors front and shelves behind, 50s.; second-hand 5-gr. pill-machine, 7s. BURGE, 123 Shirland Road, Paddington.

TYPEWRITER, No. 10 Barlock, carries 12 months' warranty (unexpired); £23 machine offered £12 15s.; seller bought two from factory closed down; deposit. BRAWN, Chemist, Bedford.

CROWDS attracted; clockwork model of dancing girls; goes about 6 hours; condition as new; suitable for toilet or perfume displays; cost 10s. 6d.; first 6s. 6d. accepted; car. paid. LEWIS, Pharmacist, Tisbury.

WANTED.

MARTINDALE, 13th. ROGERS, Chemist, Wallasey Village, Cheshire. WATER-BED wanted, 36 by 72. ASHFORD & Co., Chemists, Clapham, S.W.

OLD artificial teeth bought; cash return post. BROOKE, 34 Trinity Street, Boston.

CHEAP for cash, second-hand cash-register or check-till. 237/23, Office of this Paper.

CHECK-TILL. Particulars to J. KENYON TONKIN, Victoria Pharmacy, Leamington.

OPTICAL trial-case, lens-measure, tools, test-types. BALL, Pharmacist, Craven Arms, Salop.

HAND soap-tablet press and small jacketed pan, also small crutching machine. State lowest price, 223/27, Office of this Paper.

GLYCERINE, cwt. drums, composition mortar (about 3 pints), counter-stand, 23 glass shelves. WILLIAMS, 118 The Moor, Sheffield.

OR TICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

"CHEMIST AND DRUGGIST" wanted in exchange for "Pharmaceutical Journal."—posted Friday or first mail Saturday. GOOCH, Dedham, Essex.

Minor Experiences.

Failure (127/19) records his unsuccessful appearance for the Minor examination in London:

On being called to DISPENSING the following paper was handed to me:

Sig.: $\frac{1}{2}$ pt. every morning.	
Bismuthi carb. ...	gr. 80
Mist. creosoti, B.P. ...	℥iij.
Sig.: $\frac{1}{2}$ bis die post cibos.	
Liq. hamamelidis ...	m℥.
Ext. belladonnæ vir. ...	gr. $\frac{1}{2}$
Ol. theobrom. ...	q.s.
Misce. Fiat suppos. Mitte vj.	
Ext. cascariæ sagradæ ...	gr. ij.
Ext. hyoscyami ...	gr. j.
Ext. euonymi sicc. ...	gr. j.
Fiat pil. Mitte xij. in argent.	
Calamin. ...	℥ij.
Zinci oxidi ...	℥ij.
Acid. carbol. liq. ...	m℥.
Liquor. calcei ad ...	℥vj.
Fiat lotio. M.d.u.	

The preparations were finished by 12.50 p.m. On returning from lunch for

PRACTICAL CHEMISTRY, I had to make 100 c.c. decinormal silver-nitrate solution, and with it estimate the percentage of potassium cyanide in the solution provided. Next, to make a sample of calcium phosphate from the calcium carbonate provided, and also to analyse a given substance, which turned out to be red-lead. In due course a notice to present myself at the examination-hall for the second day arrived. The first subject was

BOTANY, with Mr. Phillips. I was asked the common names for *Conium maculatum*, *Digitalis purpurea*, *Hyoscyamus niger*, and a few others, also natural orders of digitalis, stramonium, and yew. How many stamens are there in the N.O.s *Ranunculaceæ*, *Solanaceæ*, *Rosaceæ*? What kind of ovary? Some flowers were also given for classification, and three slides for microscopic examination.

PRESCRIPTION-READING.—Mr. Wyatt gave me two calculations, followed by four prescriptions to render into full Latin. A number of doses were wanted next, including the dose of koussou, which, the examiner remarked, all the candidates seemed to know.

MATERIA MEDICA.—Mr. Farr handed me specimens of black and silver-grain cochineal, belladonna-leaves, aniseed and conium fruits, alder, buckthorn-bark, hamamelis-bark, and Barbadoes aloes. On going to

CHEMISTRY, Mr. Tickle commenced with questions on nitrogen, the amides and anilides, with their relationship and preparation. Where is antimony obtained from? How many of its oxides are known? All the questions were duly answered, and I was sent to the last subject,

PHARMACY, with Mr. Goldby. In stating the ingredients in lin. belladonnæ I omitted to mention camphor. Then followed preparation of lin. aconiti (strength?), lin. camph. (strength?), syr. chloral, syr. codeinæ, ext. ergotæ liq., and tr. benz. co. Next three bottles containing liquids were handed over for recognition. The fluids were tr. cannabis indicæ, tr. tolut., and terebene. How is terebene prepared?

At the conclusion of the subject, after a short wait, the President informed me that I had not satisfied the examiners in pharmacy.

("Failure" wishes to express his appreciation of the kindness experienced at the hands of all the examiners.)

Where to Study.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Pharmacy, 323 Clapham Road, London, S.W.

South of England College of Pharmacy, Clapham Road, London, S.W.

Manchester College of Pharmacy, 225A and 227A Oxford Road, Manchester.

Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester.

Leeds College of Pharmacy, Clarendon Street, Leeds.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Coming Events.

This Section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Tuesday, March 22.

Bradford Chemists' Association, Bonnet's Café, at 9 p.m. Lantern-lecture by Mr. H. O. Meek on "A Canoe Trip Down the Eden and Wye."

Friday, March 25.

National Union of Assistant Pharmacists, Anderton's Hotel, Fleet Street, London, E.C., at 11.30 a.m. Annual meeting.

THE ANNUAL DINNER of the Birkenhead and Wirral Association of Pharmacists will take place at the Woodside Hotel, Birkenhead, on April 7.

THE ANNUAL WHIST-DRIVE and dance in connection with the Brighton Association of Pharmacy will take place on April 1 at the Old Ship Assembly Rooms. Tickets (5s. each) from Mr. C. E. Robinson, Hon. Secretary, 4 Victoria Terrace, Hove.

THE ANNUAL DINNER of the Advertisers' Protection Society, Ltd., is to be held at De Keyser's Hotel, Victoria Embankment, Blackfriars, London, E.C., on April 7. Sir W. P. Treloar, Bart., will preside. Tickets (10s. 6d. each) may be had from Mr. Stanley B. Worth (Hon. Secretary), 35 New Broad Street, E.C.

A CONCERT in aid of the Benevolent Fund of the Pharmaceutical Society has been arranged by the Association of Women Pharmacists to take place at Passmore Edwards Settlement, Tavistock Place, London, W.C., on April 13, at 8 p.m. Tickets (2s. 6d. and 1s. 6d.) may be obtained from Miss Renouf or Miss Wren, 17 Bloomsbury Square, London, W.C.

LONDON CHEMISTS' GOLF CLUB.—The first annual dinner of this club will be given in the Salisbury Hotel, Salisbury Square, Fleet Street, E.C., on Thursday, April 7, at 7.30 for 8 p.m. Mr. C. A. Hill, B.Sc., F.I.C., will preside. Tickets (5s. each) can be obtained from Mr. William Duncan (the Hon. Secretary), 93 Gloucester Road, Tottenham, London, N., and from Mr. A. Boyes (the Hon. Treasurer), 77 Cecil Park, Crouch End, London, N.

Royal Institution.

SIR WILLIAM CROOKES took the chair at the Friday evening meeting on March 11, when Dr. H. Brereton Baker discoursed on "The Ionisation of Gases and Chemical Change." The first part dealt with the catalytic action of water in chemistry, and consisted of interesting details of the lecturer's discovery that in the absence of water many well-known reactions between gases do not take place. The dissociation of ammonium chloride only occurs when moisture is present. Many experiments were shown to illustrate these remarks, including one exhibiting the remarkable change of colour from green to blue when liquid nitrogen trioxide is cooled. The amount of water required to bring about chemical reaction in gases is extremely small, less than 1 milligram in 100,000 litres. Some details were given of the lecturer's efforts to obtain metallic sodium in such a pure condition that it would not act on water. By distilling sodium in helium, and using water prepared from pure hydrogen and oxygen, he noted that the sodium and water were in contact for at least three seconds before any action took place. No action is obtained by placing sodium amalgam in very pure water, this being experimentally shown along with a contrast experiment, in which ordinary distilled water was employed. The last part of the lecture dealt with the ionisation of gases, Dr. Brereton Baker amusingly recounting his efforts to obtain a better term for the change. After consulting a Bishop and a Dean, without any result that was useful, it occurred to him one day while playing golf that the word "electromerism" would well express what was wanted. The term ionisation is to be retained for electrolytic dissociation, the new term being applied to the different processes which take place in gases under the action of Röntgen rays. In order to test the question whether electromerism could bring about chemical change, the lecturer investigated the action of radium bromide on very pure and dry hydrogen and oxygen. The gases were sealed up with some radium bromide contained

in an open silica tube. No action whatever was observed, although the substances were left in contact for two months. A further experiment showed that very dry air undergoes electromerism when subjected to the action of radium. Two more tubes were then set up, similar to the first, containing mixtures of carbon monoxide and oxygen, one very dry and the other containing traces of moisture, and although the radium bromide was in contact with them for more than three months not the slightest contraction could be observed. In these cases, therefore, electromerism produces no chemical change. There was, however, a possibility that electromerism might bring about a chemical action in a mixture of gases which was under conditions which were nearly, but not quite, suitable for chemical action to take place. The gaseous mixtures mentioned only combined, even when moist, at a red heat. Since the experiments were done at 20°, they showed only that electromerism does not produce chemical action in gases which are otherwise unable to combine. There remained the possibility that if gases are just on the point of combining, increasing the electromerism might accelerate the rate of action. Hydrogen and nitrous oxide, as pure as possible, but dried only by passing through phosphorus pentoxide tubes, were found to combine with great uniformity when heated in clean Jena glass tubes to 530°.

Among the exhibitors in the library were Messrs. F. Darton & Co. and Mr. F. Harrison Glew.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 obtainable at Money Order Offices for £1 and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal," February 23, 1910.)

- "MAXIMALT": for malt-extract (42). By United Yeast Co., Ltd., 80 Miller Street, Manchester. 317,693.
- Device of letters "B P" and firm's name; for mineral and aerated waters (44). By Brooke & Prudencio, Ltd., Newfoundland Road, Bristol. 314,643.
- Device of tray and the word "SCHWEPES"; for mineral and aerated waters (44). By Schwepes, Ltd., 64 Hammer-smith Road, London, W. 318,290.
- "QUINRON"; for beverages (44). By Ford & Parr, Ltd., 144 Wollaton Street, Nottingham. 319,647.
- "EMPIRE"; for night-lights (47). By Isaac Levy, 27-29 White-cross Street, London, E.C. 318,256.

(From the "Trade-marks Journal," March 2, 1910.)

- Device with letters "B C C"; for goods in 1, 2, 3, 11, 12, 16, 35, 39, 40, 42, 44, 47, 48 and 50. By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 319,835/6/7/8/9/40 41/42/43/44/45/46/47 and 319,861.
- "BULLONICA"; for a cattle medicine (2). By A. W. Bishop, 114 Bolton Road, Ashton-in-Makerfield. 320,002.
- "WASTERITE"; for cattle-medicines (2). By Henry Bell, 62 Quay, Waterford. 320,063.
- "FUMONA"; for horticultural fumigants (2). By G. Manson, 52 Mount Pleasant, Liverpool. 320,236.
- "CORNALINE"; for medicinal chemicals (3). By H. Nickel & Co., 73 Goswell Road, London, E.C. 317,604.
- "MICROCURA"; for ointments (3). By J. B. Atherton, 12 Sandringham Drive, Aigburth, Liverpool. 318,180.
- "PARALGIA," "MEILLISSA," "MYROGEN"; for medicinal chemicals (3). By Shaw Remedies, 89 Farringdon Street, London, E.C. 318,390, 318,610, 318,611.
- "THOMAS P. LUCAS" (facsimile signature); for medicinal chemicals (3). By T. P. Lucas, 7 Wakefield Buildings, Adelaide Street, Brisbane. 318,874.
- "GLOBENA"; for medicinal chemicals (3). By Cooper, Son & Co., Ltd., 80 Gloucester Road, London, S.W. 319,258.
- "SEIZEM"; for a remedy for human use (3). By R. H. MeMyn, 26 New Bank Road, Blackburn. 319,429.
- "CINNAMINT"; for a cold and influenza remedy (3). By Squire & Sons, 413 Oxford Street, London, W. 319,503.

- "BRONKERCHIEF"; for curative preparations (3). By W. & H. Jackson, 13 and 15 Lydia Ann Street, Liverpool. 320,399.
- "EPININE"; for medicinal chemicals (3). By H. S. Wellcome, Snow Hill Buildings, London, E.C. 320,407.
- "NICOMORS"; for all goods (3). By Dr. A. Herbrand Manufacturing Co., Ltd., 5 Marburgerstrasse, Berlin, W. 50. 320,439.
- "GEM"; for surgical apparatus (11). By Gem Supplies Co., Ltd., 22 Peartree Street, London, E.C. 318,959.
- "SUNIC"; for x-ray apparatus (11). By W. Watson & Sons, Ltd., 313 High Holborn, London, W.C. 319,430.
- "BON-ESCA" and label device; for a food (42). By T. Frith & Son, 105-107 Brighton Street, Egremont, Birkenhead. 317,370.
- "BULGAN"; for food substances (42). By Callard, Stewart & Watt, Ltd., 49 Old Bond Street, London, W. 319,601.
- "SCHWEPES" and tray device; for mineral and aerated waters (44). By Schwepes, Ltd., 64 Hammer-smith Road, London, W. 320,261.
- "EDWARDS' HARLENE FOR THE HAIR," and label device; for a hair preparation (48). By R. G. Edwards, 95 and 96 High Holborn, London, W.C. 318,189.
- "GROTHE" and picture of baby's head with curl; for a hair preparation (48). By R. M. McQueen, 89 Eaton Terrace, London, S.W. 319,786.
- "LANOTA"; for perfumery (48). By Yardley & Co., Ltd., 105 Carpenters Road, Stratford, London, E. 319,991.
- "GOSNELL'S BULL'S HEAD BRAND" and picture of same; for perfumery, etc. (48). By J. Gosnell & Co., Ltd., 213-215 Blackfriars Road, London, S.E. 320,079.

(From the "Trade-marks Journal," March 9, 1910.)

- "DENDRONOL"; for chemicals (2). By J. Beissbarth, Auldrey House, Ely Place, London, E.C. 319,122.
- "DRAKE MANUFACTURING CO.," and label device with portrait of Sir Francis Drake; for medicinal chemicals (3), for food substances (42), and for perfumery, etc. (48). By J. E. Jewell, 38 Chandos Street, London, W.C. 318,909, 318,910, 318,911.
- "BIOL"; for medicines (3). By G. H. Shepherd, 16 and 17 Devonshire Square, London, E.C. 318,789.
- "THAOLAXINE"; for a pharmaceutical preparation (3), and for alimentary goods (42). By Jules Lazar, 86 Rue Mirameuil, Paris. 319,983, 319,984.
- "AREO"; for spectacles, etc. (8). By Heath & Stoneman, 24 George Street, Plymouth. 320,219.
- "TONOFORM"; for food substances (42). By E. Marlier, 36 Magdeburgerstrasse, Berlin. 319,140.
- "TAY TAB"; for food substances (42). By Taylor's Tablet Co., 84 New North Road, London. 319,946.
- "PADRO"; for malt coffee, etc. (42). By G. H. Iserief, 39 Burlington Road, Withington, Manchester. 320,668.
- "GEBOXELINE"; for oils and greases (47). By Stern Sonneborn Oil Co., Ltd., 16 Finsbury Square, London, E.C. 320,447.
- "DAIRYMAID"; for tooth powder, paste, and wash (48). By Elite Toilet Co., Bradford Street, Birmingham. 319,185.
- "CAPILLUMIN," and label device with portrait showing girl's long hair; for hair restorers and tonics (48). By John Fry, 5 Crofton Road, Camberwell, London, S.E. 319,864.
- "DRAO"; for a dentifrice (48). By Jack Humphreys, 80 Brook Street, London, W. 320,183.

(From the "Trade-marks Journal," March 16, 1910.)

- "LION BRAND BEST BRITISH BORAX," and device of letter "B" and two lions rampant; for borax (1). By J. Townsend, Ltd., 19 Crawford Street, Port Dundas, Glasgow. 320,024.
- Device of leaf and sprays with word "Abol"; for plant and tree washes (2). By E. A. White, Ltd., Beltring, Paddock Wood. 316,920.
- "BLACK BESS"; for horse condition powder (2). By A. H. Davies, Glan Dwr, Pentre Du, Bettws-y-Coed. 317,854.
- Device of swarm of flies, fly-catcher, and two flags; for a sticky fly-catcher (2). By O. Sorgel, Biesern, near Rochlitz, Saxony. 319,609.
- "BAA"; for sheep-dip in powder form (2). By F. W. Berk & Co., 1 Fenchurch Avenue, London, E.C. 320,300.
- "F. A. M." (fever, ague, malaria), and label device with facsimile signature for a medical preparation (3). By R. G. Brizell, 33 Hanover Street, Liverpool. 317,144.
- Device of bird holding scroll in beak, with the letters "T. M. H."; for goods in (3) (8) (11) and (48). By the Town Medical Hall, 90 Dalhousie Street, Rangoon, Burmah. 317,553, 317,559, 317,660, 317,661.

Prescription Problem.

THE facsimile of Sir James Sawyer's prescription printed in our issue of February 19 was an exercise for apprentices. It was complete, saving the name of the patient, which prefixed the direction. It was in the nature of a request, the prescription having been entered in the dispenser's book previously, and when the patient visited Sir James Sawyer again he wrote:

*Mr. Smith,
In tabernā hodie medicinam capiat. —
[Date.]*

which, translated, is "Let Mr. Smith take the medicine in the shop to-day." Then followed the sign for Thursday, and "27.1.10." No one of the competitors recognised the sign for the day of the week. We are indebted to Sir James Sawyer for the "tip." He writes as follows:

31 Temple Row, Birmingham, Feb. 19, 1910.

DEAR SIR,—I answer your inquiry with pleasure and am glad to have this opportunity of communicating to pharmacists an interesting and useful point in the scripture of prescriptions. I find it convenient and useful in practice as a consulting physician to mark upon my prescriptions the day of the week upon which each was written, besides the date. My prescriptions are always written in the Latin language, and I use the Latin names of the days of the week, as represented by their appropriate astronomical signs, thus:

- ☉ *Dies Solis*
- ☾ *Dies Lunæ*
- ♂ *Dies Martis*
- ♀ *Dies Mercurii*
- ♃ *Dies Jovis*
- ♀ *Dies Veneris*
- ♄ *Dies Saturnii*

The response from apprentices was good, London being the poorest, in proportion to population, of all parts of the United Kingdom, probably because there are few apprentices in London. Wales and Ireland were also indifferently represented; but the English provinces well, and Scotland also. We asked both transcription and translation of the original; many competitors omitted the former. We also stated that in awarding prizes the handwriting as well as time of posting would be taken into account. There are some excellent penmen among the competitors. The following are the prize-winners:

P. Dalton, with Mr. R. C. Tween, 47 High Street, Bushey. [Writes slightly backhand; each word complete in itself, and distinct from the rest. A good style for dispensing labels.]

L. F. Davidson, with Mr. P. Davidson, 342 High Road, Brondesbury, N.W. [A fair round hand, distinct in lettering. Lower strokes to the thick side.]

A. F. Gordon, with Mr. A. R. Clark, Braemar. [A characteristic style of writing—bold, uniform, and clear. Good for a dispenser or for any purpose.]

T. Harvey, with Mr. C. J. Park, 2 Salcombe Road, Plymouth. [Writes in Civil Service style; one of the best in the series.]

Horace W. Hind, with Mr. W. T. Hind, 78 Queen's Road, Leicester. [At fifteen writes a plain and free "hand," which is easy to read.]

W. A. Hopwood, with Mr. V. G. H. Barnes, Cheshire Street, Market Drayton. [A good round hand, excellent for labels. The little flourish in starting "m's" should be discouraged.]

Robert W. Noble, with Mr. Alex. Noble, Island Street, Galashiels. [A rather juvenile "hand," but painstaking and shapely. A remarkably similar card came from another apprentice in the same town three days later.]

Eldon A. S. Oldham, with Mr. J. J. Cole, 90 Main Street, Cavan. [The handwriting requires to be restrained. It is at present round and well-formed, but with increasing facility may become slurred.]

Herbert Orr, with Mr. George Brown, 20 Wexford Street, Dublin. [Fairly written, but would be better with a slightly thicker pen.]

George Prothero, with Mr. W. S. Bound, Llandrindod Wells. [Well written, but "n's" and "m's" should be looked to. In a few years all the "n's" will be "u's."]

Lewis J. Sloper, with Mr. W. Bland Botham, 147 Holden-hurst Road, Bournemouth. [Another of the best; the writing conveys the idea that the writer is careful and painstaking, and this in a dispenser makes up for any deficiency in "character."]

John Walls, with Messrs. H. C. Baidon & Son, 73 Prince's Street, Edinburgh. [One of the few who correctly transcribed the Thursday sign, but did not translate it. Writes carefully and distinctly.]

We are sending a copy of Ince's "Elementary Dispensing Practice" to each of these.

Replies have been received from the following towns:

Ashford.	Epping.	Market Drayton.
Barnard Castle.	Fordingbridge.	Norwich.
Beverley.	Galashiels.	Preston.
Birmingham.	Halifax.	Plymouth.
Bournemouth.	Hereford.	Redditch.
Braemar.	Horley.	Rochdale.
Brighton.	Kidderminster.	Rothemay.
Bristol.	Kidwelly.	Shortlands.
Budleigh Salterton	Kirkcaldy.	Southsea.
Burslem.	Leicester.	Stafford.
Bushey.	Lincoln.	Stalybridge.
Cavan.	Liskeard.	Stamford.
Cheadle.	Llandrindod Wells.	Stechford.
Cupar, Fife.	Lochee.	Warwick.
Dalbeattie.	London.	West Hartlepool.
Dartford.	Maesteg.	Wigan.
Dublin.	Manchester.	Winchester.
Edinburgh.	Methil.	Ynshir.

We have also received several from the Continent, but reserve them for a later report. The next problem is open for subscribers and their employes to solve. It is as follows:

Postcard replies will be received up to March 30.

NAME.....

ADDRESS.....

AMOUNT PAID.....

CALL.....

SEND.....

Easter Holidays.

The following offices and warehouses will be closed from Thursday evening, March 24, to Tuesday morning, March 29:

T. & H. Smith, Ltd., 22 City Road, London, E.C.

CHEMIST AND DRUGGIST offices, 42 Cannon Street, London, E.C.

Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.

Manners & Hopkinson, 82 Southwark Bridge Road, London, S.E.

Allen & Hanburys, Ltd., Bethnal Green, London, E. (Urgent orders can be executed at Plough Court, Lombard Street, E.C., or 7 Vere Street, W.)

T. Morson & Sons, 14 Elm Street, Gray's Inn Road, and Summerfield Chemical Works, Ponder's End, Middlesex. (The Elm Street warehouse will be open on Saturday morning for urgent orders.)

TÓNKA-BEANS.—The exports from Venezuela during the year ending June 30, 1909, amounted to 290 metric tons, valued at 32,343.

THERMOGÈNE ABSORBENT WADDING.

UNLIKE ANYTHING.

SUPPLANTS NOTHING.

P. A. T. A.

Prominent advertisements are now appearing in the Daily Papers stating that Thermogene can be obtained from Chemists. We hope the Trade will reciprocate our sending customers to their establishments by replenishing their stocks of Thermogene to meet the demand. It would be to mutual benefit.

SHOWCARDS, DUMMIES, and BOOKLETS FREE.

Please address your inquiries to:

THE THERMOGÈNE CO., LTD., 3 Hayward's Heath, Sussex

— or —

FASSETT & JOHNSON, 86 Clerkenwell Road, London, E.C.

MARSHALLS' Ltd., Colebrooke Works, ISLINGTON, N.

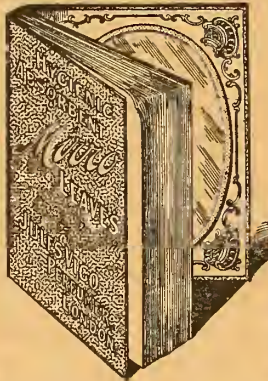
TELEPHONE: 833 CITY.

BOOKLETS UP TO DATE.

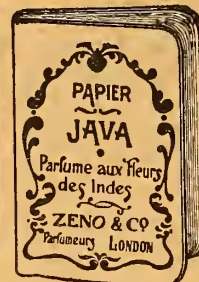
INDISPENSABLE POCKET TOILET COMPANIONS.



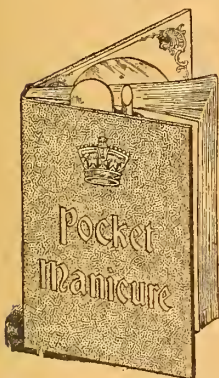
Best selling Book on the Market. 8/-, 15/-, 24/- gross. Extra per doz.



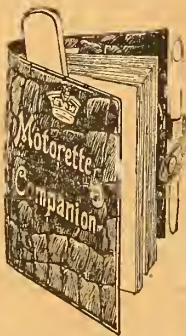
With Mirror, 30/- gross.



Gilt edge, satin bound for high-class trade, 3/6 doz.; with Mirrors, 4/- doz.



Nail Powder Leaves and Manicure Requisites, also Mirror... 4/- doz. A cheaper line in card covers, 2/6 doz.



Well-made Leather Wallet, with Gilt edge Powder Leaves. Also improved Nail Smoother & Polisher, &c., 8/- doz. Refills, 1/6 & 2/6 doz.



3/- per doz.



48/- GROSS.



Orange sticks 3 doz. in bundle. 2/6 doz. bundles.



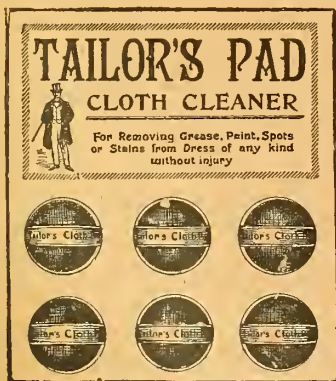
1 doz. in Box. 5/6 per doz. boxes.



TUBE WINDERS.



3/- gross.



18/- per gross.



PILE OINTMENT.

An efficacious preparation, prepared with witch hazel, neatly packed in 1 oz. tubes, carded, complete with tubes, 7/6 doz.; spare tubes, 3/- doz.

COLLAPSIBLE TUBES

OF ALL KINDS.

Adeps Lanæ, Anhydrous, Odourless, 10d. per lb.



PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

Acetanilide, B.P., 1 cwt. @ 11½d. lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/3 lb.; powder, 1d. lb. extra.	Atropine Sulph., P.B., 1 oz. @ 12/9 oz.	Emp. Picis, P.B., 7 lbs. @ 8½ lb.
*Acet. Ipecac. B.P., 7 lbs. @ 1/3 lb.	Arsenic, Alb. Pulv., 2 cwt. @ 16/- cwt.; 7 lbs. @ 4d. lb.	" Plumbi, P.B., 7 lbs. @ 8½ lb.
*Scilla, B.P., 7 lbs. @ 3d. lb.	Auri Chlor., 6 doz. 15 gr. tubes @ 18/3 doz.; 1 doz. 15 gr. tubes @ 19/6 doz.	" Resina, P.B., 7 lbs. @ 8½ lb.
*Acetone, 6 lbs. @ 1/2 lb.; 1 lb. @ 1/4 lb.	Bals. Copaiba pure, 44 lbs. @ 1/11 lb.; 9 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.	" Roboras, 7 lbs. @ 8½ lb.
*Acid Acet. Glacial, 99%, Carboys 144 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 6½d. lb.; 6 lbs. @ 8d.	Bals. Fernv. P.B., 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.	Emulsio Ol. Morruæ, 10 lbs. @ 6½d. lb.
Acid Acetylo-Salicyl., 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.	" Sulphur, 7 lbs. @ 8d. lb.; 1 lb. @ 1/4 lb.	Eserine Sulph. in 15 grain tubes, 3/- each.
" Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.	" Tolut. B.P., 50 lbs. @ 1/- lb.; 1 lb. @ 3/- lb.	Ess. Bergam. (Oil), 12 lbs. @ 14/- lb.; 1 lb. @ 15/6 lb., not guaranteed absolutely pure.
" Boric Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; leviged, 3/- cwt. extra.	Benzo-Naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.	Ess. Limonis (oil) original coppers, 12 lbs. @ 3/- lb.; 6 1-lb. bots. @ 3/6 lb., not guaranteed absolutely pure.
Acid Carhol Xtds., 39/40; 56 lbs. @ 5d. lb.; 10-lb. Tins @ 5/- each; Detached Cryst. 8/- each; 36 1-lb. Bots. @ 8½d. lb., Single Bots. 11d. lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Crude Black, 45 Gall. Casks, @ 10d. gall.; 1 Gall. Tins @ 1/5 each.	Bismuth, P.B. Carb., 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.	*Ess. Moschi (not artificial), 5 lb. @ 10/3 lb.; 1 lb. @ 11/3 lb.
" Citric Cryst., B.P. '85, 1 cwt. & 1/4 lb.; 3 lb. in Bags @ 1/5 lb.; powder ½d. lb. extra.	Boracic Mixture, 1 cwt. @ 38/- cwt.	*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.
" Diethylbarbituric, 16 oz. @ 34/- lb.; 1 oz. @ 2/6 oz.	Borax, 1 cwt. @ 16/9; powder 1/- extra.	*Ess. Pineapple, 5 lbs. @ 3/4 lb.
" Gallic pur. P.B., 7 lbs. @ 1/10 lb.; 1 lb. @ 17/- each; 20 case lots @ 16/- each.	Butyl Chloral Hydras, P.B., 1 lb. @ 8/10 lb.	" Raspberry, 5 lb. @ 2/2 lb.; 1 lb. @ 2/6 lb.
*Hydrobrom., dil. B.P., 6 lbs. @ 6d. lb.	Caffeine, P.B., 1 lb. @ 14/- lb.	" Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.
" Hydrochlor. Coml., cases of 4 2-gal. jars, 17/- each; 20 case lots @ 16/- each.	Caffeine Cit. B.P., 1 lb. @ 10/- lb.	*Ext. Belladonna Liq. B.P., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.; solid, 7 lbs. @ 2/7 lb.
*Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1 oz. Vials @ 3/6 doz.	Calamina, powder, fine pink, 5 cwt. @ 9/6 cwt; 1 cwt. @ 10/6 cwt.; 7 lbs. @ 2d. lb.	Ext. Cannab. Ind. Alc. B.P., 5 lbs. @ 36/- lb.; 1 lb. @ 37/- lb.
" Oxalic Cryst., 5 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.; 14 lbs. @ 3½d. lb.	Calamine B.P., 1885, 7 lbs. @ 9d. lb.	Ext. Cascarā Sag. Liq., B.P., 10 lbs. @ 1/2 lb.
" Phosph. Dil. B.P., 8 lbs. @ 4½d. lb.	Calcil Carb. precip., 5 cwt. @ 14/6 cwt.; 1 cwt. @ 17/- cwt.; 28 lbs. @ 19/- cwt.	*Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.
" Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.	Hydras, P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.	Ext. Filicis Liq., P.B., 9 lbs. @ 4/10 lb.; 1 lb. @ 5/1 lb.
" Sulphur, Coml., cases, 4 2-gal. jars, 17/- each; 20 cases @ 16/- each.	Hypophosph. Pur. P.B., 1 lb. @ 2/3 lb.	Ext. Gent., P.B., Solid, 1 cwt. @ 8½d. lb.; 7 lbs. @ 9½d. lb.
*Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb.	Iodid., 1 lb. @ 14/6 lb.	*Ext. Glycyrrh. Liq. B.P., 6 lbs. @ 1/4½ lb.
" Tannic, B.P., 7 lbs. @ 2/2 lb.	Camphor, English flowers, "not artificial," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ½ oz. 7 lbs. @ 2/3½ lb. Crude, good white about 92% as imported, 140 lbs. @ 1/4 lb.; 28 lbs. @ 1/5 lb.	" Hamamelis, Liq. P.B., 5 lbs. @ 3/5 lb.
" Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 9½d. lb.; 7 lbs. @ 10½d. lb.; parv. ½d. lb. extra.	Cantharides, Russian, 7 lbs. @ 3/9 lb.; powder, 5d. lb. extra.	*Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 4/11 lb.; 1 lb. @ 5/3 lb.
Adeps Benz., B.P., 28 lbs. @ 9½d. lb.; 7 lbs. @ 10½d. lb.	Capsicine, soluble, 1 lb. @ 6/6 lb.	*Ext. Ipecac. Liq. P.B., 5 lbs. @ 11/9 lb.; 1 lb. @ 12/6 lb.
Adeps Lanae B.P., Anhydrous, 2 cwt. @ 52/6 cwt.; Hydrous @ 49/- cwt.; 1 cwt. @ 2/- cwt.; 28 lbs. @ 5/- cwt.; 14 lbs. @ 8/- cwt.; 7 lbs. @ 12/- cwt. extra.	Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 14/- cwt.; 28 lbs. @ 2d. lb.	Ext. Malti c. Ol. Jecoris, 10 lbs. @ 5½d. lb.
Aloes Barb., English ground, 28 lbs. @ 70/- cwt.; 7 lbs. @ 8d. lb.	Carmine, Finest, 1 lb. @ 17/- lb.; No. 2, 1 lb. @ 13/- lb.	*Ext. Nucis Vom. Liq. B.P., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.
Aloes, Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 8/10 lb.	Cera Alba, B.P., White Moons, 1 cwt. @ 1/6½ lb.; 28 lbs. @ 1/7½ lb.; 4 lbs. @ 1/8 lb. Flav. 1 lb. Blocks, 28 lbs. @ 1/6½ lb.; 4 lbs. @ 1/7½ lb.; 1 oz., ½ oz. Tabs., 7 lbs. @ 1/7½ lb.	Ext. Opil Solid P.B., 1 lb. @ 36/- lb.; 4/2 lb. *Ext. Opil Liq. B.P. 5 lbs. @ 3/11 lb.; 1 lb. @ 4/1 lb.
Argemone, B.P., 1 lb. @ 3/9 lb.	Cerū Oxalas, 7 lbs. @ 1/2 lb.	Ext. Quassia, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.
Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.	Cetaceum: No. 1, fine white, 64 lbs. @ 1/3 lb.; 7 lbs. @ 1/4½ lb.; powder, 7 lbs. @ 1/10 lb.	Ext. Sarsa Co. Solid; 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.
Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.	Chloral Hydras Cryst. B.P., 7 lbs. @ 4/2 lb.; 1 lb. @ 4/6 lb.	Ferri Ammon. Cit., P.B., 28 lbs. @ 1/4½ lb.; 7 lbs. @ 1/7 lb.
Ammon. Carb. lump, 3 cwt. @ 3½d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; powder, ½d. lb. extra.	*Chlorodyne, 5 lbs. @ 1/11 lb.	Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.
Ammon. Chlor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.	*Chloroform, pure B.P., 12 8-lbs. @ 1/7½ lb.; 8 lbs. @ 1/8½ lb.; 6 1-lb. bots. @ 1/10½ lb.	Ferri et Quininae Cit., P.B.: 500 ozs. @ 3d. oz. 100 ozs. @ 3½d. oz.; 25 ozs. @ 3½d. oz.
Amyli Pulv., 10 cwt. @ 12/3 cwt.; 2½ cwt. @ 12/9 cwt.; 1 cwt. @ 14/6 cwt.	Chlorophyll, 7 lbs. @ 5/- lb.; 1 lb. @ 5/9 lb.	Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs. @ 3d. lb.
Aniseed, English ground, 1 cwt. @ 38/6 cwt.; 7 lbs. @ 5d. lb.	Cocaine Hydrochlor. B.P., 25 ozs. @ 7/4 oz.; 4 ozs. @ 7/9 oz.; 1 oz. @ 8/- oz.	Ferrum Redact. 80%, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.
Antim. Crocus Pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 5d. lb.	Codeina, 1 oz. @ 11/10 oz.; Phosph., 1 oz. @ 10/1 oz.; Hydrochlor. or Sulph. 1 oz. @ 11/- oz.	Flor. Anth. Exot., No. 1, 1 cwt. @ 95/- cwt.; 28 lbs. @ 100/- cwt.; 7 lbs. @ 1/- lb.; No. 2, 1 cwt. @ 77/-; 7 lbs. @ 9½d. lb.
Antim. Nig. pulv., 1 cwt. @ 25/6 cwt.; 14 lbs. @ 33/- cwt.	Colocynth, Apple, English ground, 1 cwt. @ 10½d. lb.; 28 lbs. @ 11d. lb.; 7 lbs. @ 1/3½ lb.; Pulp, 2 cwt. bales @ 7d. lb.; 7 lbs. @ 10d. lb.	Fol. Buchu, round good green, 7 lbs. @ 1 lb.
Apiol, 1 lb. @ 13/9 lb.	Composition Powder (Coffin's), 1 cwt. @ 58/- cwt.; 7 lbs. @ 7½d. lb.	Fol. Hyoscyam. Bien., 7 lbs. @ 5/6 lb.; pulv. 5/3 lb.
*Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.	Conf. Sennæ P.B., 14 lbs. @ 8d. lb.; 7 lbs. @ 8½ lb.	Fol. Sennæ Alex. parv., 1 cwt. @ 4d. lb.; 28 lbs. @ 4½d. lb.
" Anisi Conc. 1-40; 1 lb. @ 3/1 lb.	Cort. Aurant. Exot. Shreds, 1 cwt. @ 6½d. lb.; 7 lbs. @ 8d. lb.	Fol. Sennæ Tinney, 3½ cwt. @ 2½d. lb.; 1 cwt. @ 3½d. lb.; 7 lbs. @ 3½d. lb.; English Ground, 1 cwt. @ 5½d. lb.; 56 lbs. @ 6d. lb.; 7 lbs. @ 7d. lb.
" Cinnam. Conc. 1-40, 1 lb. @ 3/4 lb.	Cort. Ulmi Fulvae, English Ground, 1 cwt. @ 8½d. lb.; 7 lbs. @ 10d. lb.	Formaldehyde, 40%, 132-lb. Carboys @ 52/- each; 7 lbs. @ 7½d. lb.
" Aurant. Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.	Cream Tartar, 98% powder, 1 cwt. @ 76/- cwt.; 7 lbs. @ 9d. lb.	Fuller's Earth, fine powder or lump, 5 cwt. @ 5/- cwt.; 1 cwt. @ 6/- cwt.
" Aurant. Conc., 1-40, 1 lb. @ 6/1 lb.	Croosotum Beechwood, P.B., 22 lbs. @ 2/- lb.; 7 lbs. @ 2/2 lb.	Gallæ Cæcul. Pulv., 7 lbs. @ 1/- lb.
" Rose Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.	Creta c. Camph., 7 lbs. @ 8d. lb.	Gamboge English Ground, 7 lbs. @ 4/- lb.; 1 lb. @ 4/4 lb.
" Rosæ Trip., 1-40, 1 lb. @ 6/- lb.	" Gall. Pulv., in sacks, 10 cwt. @ 6/- cwt.; 1 cwt. @ 7/- cwt.; 14 lbs. @ 1½d. lb.	Ginger, English Ground, 1 cwt. @ 52/- cwt.; 7 lbs. @ 6½d. lb.
" Samb. Trip., 53 lbs. @ 23/6; 6 lbs. @ 8d. lb.	Creta Præparata, 7 lbs. in box, 9d. each.	Gingerine, Extra, 5 lbs. @ 9/6 lb.; 1 lb. @ 10/- lb.
" Samb. Conc., 1-40, 1 lb. @ 6/1 lb.	Cubebæ, English Ground, 28 lbs. @ 1 cwt.; 7 lbs. @ 1 lb.	Glycerin. Opt., D.D., 1.260 P.B., 1 cwt. @ 99/- cwt.; 56 lbs. @ 100/- cwt.; 12 lbs. @ 1/1½ lb.
" Laurocerasi, 53 lbs. @ 17/6 lb.; 6 @ 7d. lb.	*Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/4 lb. Sine croco, 6 lbs. @ 1/2 lb.	*Glycerin. Acid. Boric P.B., 6 lbs. @ 1/4 lb.
" Menth. Pip. Conc. 1-40, 1 lb. @ 3/- lb.	*Dec. Cinchona (Rubra) Conc. 1-7, 6 lbs. @ 1/10 lb.	" Acid. Carbolic P.B., 6 lbs. @ 1/4 lb.
Araroba, fine powder, 7 lbs. @ 4/3 lb.; 1 lb. @ 4/9 lb.	*Dec. Senegæ Conc., 6 lbs. @ 2/1 lb.	" Acid. Tannic, P.B., 6 lbs. @ 1/4 lb.
Argent. Nit., 6's to oz., 25 oz. @ 1/8½ oz.; 1 oz. @ 1/10 oz.	Dionine, 15 grains @ 1/8; ½ oz. @ 9/-	Belladon. B.P.C., 6 lbs. @ 2/6; 1 lb. @ 2/9 lb.
" Cryst., 25 oz. @ 1/6 oz.; 8 oz. @ 1/7 oz.	Emp. Spread 12 yds. x 16 ins. Adhesive, 3/8; Bellad. B.P.C. Green @ 16/6; Cerat. Sap nis @ 7/6; Picis Co. @ 7/6; Plumbi @ 6/-; Resin @ 4/6; Roboras @ 6/-; Saponis B.P. @ 6/-	*Glycerin. Boracis P.B., 6 lbs. @ 1/1 lb.

*Minimum quantity at the e prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

It's Good Business

to make a certain profit of **25%** on the selling price of such a popular and effective remedy as Iron-Ox Tablets. We offer you this generous profit, and ask you in return to help us by displaying our advertising matter, and by recommending the Tablets to your customers. Mutual help will pay both you and us.

Prices of Iron-Ox Tablets to the Trade.

One Shilling size	Under 6 dozen	10/-	per dozen net.	Cash with order.
	6 dozen	9/9	per dozen net in 30 days, or	9/6 cash in 10 days.
	12 "	9/3	do. do.	or 9/- do. do.
Four Shilling size	Under 1½ dozen	40/-	per dozen net.	Cash with order.
	1½ dozen	39/-	per dozen net in 30 days, or	38/- cash in 10 days.
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Mixed Orders	The above terms for 6 dozen 1/- size, or 1½ dozen 4/- size will be given on mixed orders value £3. And our very best terms on mixed orders value £6.			

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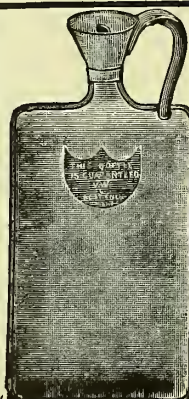
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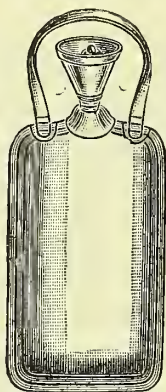
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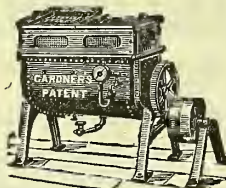
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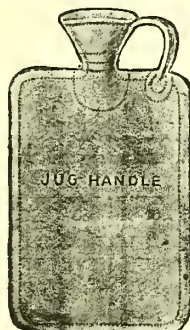




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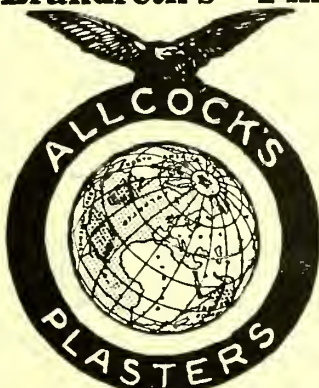
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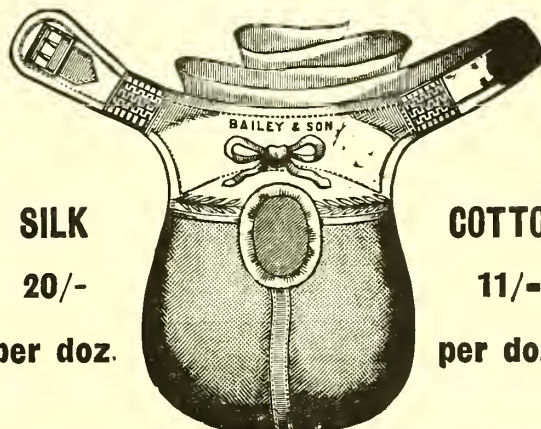
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